

**PIONEER**

# Service Manual



The photo shows the model UKP-5600.

**ORDER NO.  
CRT-266-0**

CASSETTE CAR STEREO WITH AM/FM PRESET TUNER

**UKP-5200**

CASSETTE CAR STEREO WITH AM/FM PRESET TUNER

**UKP-5210**

CASSETTE CAR STEREO WITH AM/FM PRESET TUNER

**UKP-5600**

**US, CA**

**US, CA**

**US, CA**

## SPECIFICATIONS

### General

|                            |  |
|----------------------------|--|
| Power source .....         | DC 14.4V (10.8 ~ 15.6V allowable)                                |
| Grounding system .....     | Negative type  |
| Dimensions (chassis) ..... | 180(W) × 50(H) × 120(D) mm<br>[7-1/8(W) × 2(H) × 4-3/4(D) in.]   |
| (nose) .....               | 96(W) × 42(H) × 30(D) mm<br>[3-3/4(W) × 1-5/8(H) × 1-1/4(D) in.] |
| Shaft interval .....       | 130 or 147 mm (5-1/8 or 5-3/4 in.)                               |
| Weight .....               | 1.6 kg (3.5 lbs.)  |

### Amplifier

Continuous power output is 3.2W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.

Maximum power output .....

|                         |
|-------------------------|
| 6.5W + 6.5W             |
| 6W + 6W (UKP-5200 only) |

Load impedance .....

|                       |
|-----------------------|
| 4Ω (2 ~ 8Ω allowable) |
|-----------------------|

Tone control (bass) .....

|                                 |
|---------------------------------|
| ±10 dB (100 Hz) (UKP-5600 only) |
| (treble) .....                  |
| ±10 dB (10 kHz) (UKP-5600 only) |

Loudness contour .....

|                                 |
|---------------------------------|
| +12 dB (100 Hz), +4 dB (10 kHz) |
| (volume: -30 dB)                |

### Tape player

|                                |  |
|--------------------------------|--|
| Tape .....                     | Compact cassette tape (C-30 ~ C-90)        |
| Tape speed .....               | 4.76 cm/sec. (+0.14 cm/sec. -0.05 cm/sec.) |
| Fast forward/rewind time ..... | Approx. 100 sec. for C-60                  |
| Wow & flutter .....            | 0.15% (WRMS)                               |
| Frequency response .....       | 50 ~ 12,000 Hz (±3 dB)                     |
| Stereo separation .....        | 45 dB                                      |
| Signal-to-noise ratio .....    | 52 dB (IHF-A network)                      |

### FM tuner

|                                     |  |
|-------------------------------------|--|
| Frequency range .....               | 88 ~ 108 MHz   |
| Usable sensitivity .....            | 20.8 dBf (3 μV/75Ω, mono)<br>16.8 dBf (1.9 μV/75Ω, mono) (UKP-5600 only)           |
| 50 dB quieting sensitivity .....    | 23.2 dBf (4 μV/75Ω, mono)<br>19.2 dBf (2.5 μV/75Ω, mono) (UKP-5600 only)           |
| Signal-to-noise ratio .....         | 65 dB (IHF-A network)<br>70 dB (IHF-A network) (UKP-5600 only)                     |
| Alternate channel selectivity ..... | 50 dB (±400 kHz)<br>70 dB (±400 kHz) (UKP-5600 only)                               |
| Distortion .....                    | 0.5% (at 65 dBf, 1 kHz, stereo)<br>0.3% (at 65 dBf, 1 kHz, stereo) (UKP-5600 only) |
| Frequency response .....            | 50 ~ 10,000 Hz (±3 dB)   |
| Stereo separation .....             | 40 dB (at 65 dBf, 1 kHz)   |

### AM tuner

|                          |                            |
|--------------------------|----------------------------|
| Frequency range .....    | 520 ~ 1,620 kHz            |
| Usable sensitivity ..... | 18 μV (25 dB) (S/N: 20 dB) |
| Selectivity .....        | 30 dB (±10 kHz)            |

*These specifications were determined and are presented in accordance with specification standards established by the Ad Hoc Committee of Car Stereo Manufacturers.*

### Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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# 1. PARTS LOCATION

## NOTE:

- For your Parts Stock Control, the fast moving items are indicated with the marks

★ ★ and ★.

★ ★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

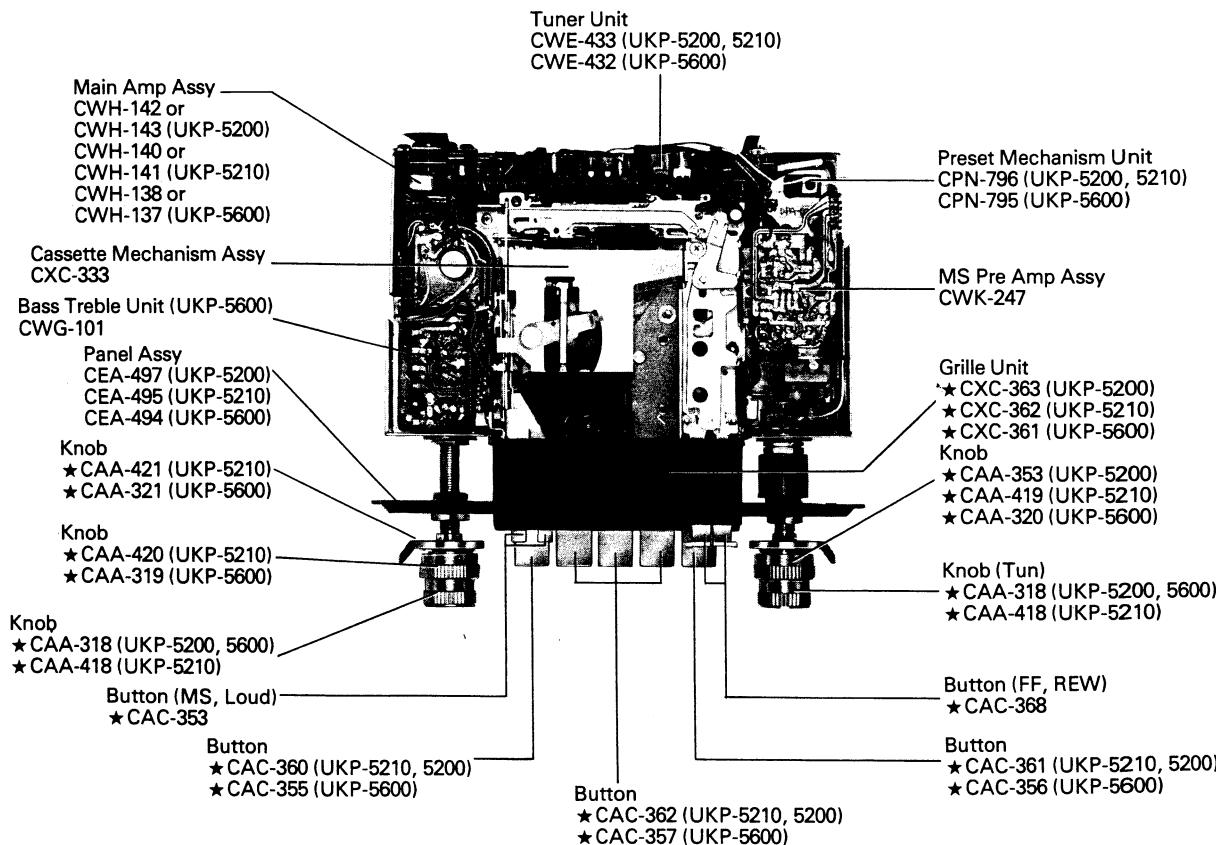


Fig. 1

## 2. ADJUSTMENT

### 2.1 FM IF ADJUSTMENT (UKP-5200/5210)

- Connection Diagram

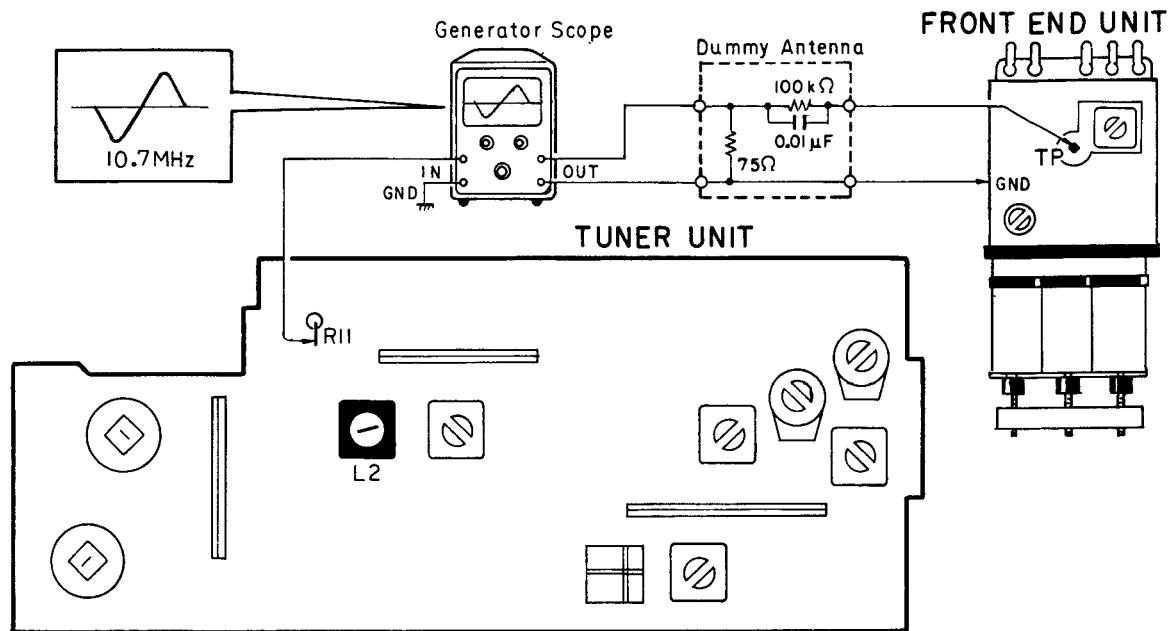


Fig. 2

- To Adjust

1. Set Generator Scope as follows:  
 Frequency centering on sweep ..... 10.7 MHz  
 Input level ..... 0.2 Vp-p/cm  
 Output level ..... 1.8 mV~5 mV
2. A waveform shown in Fig. 2 is obtained on the generator scope when the hook-up is made as illustrated above and the power source is applied to.
3. Adjust the cores of L2 so that maximum amplitude and optimum linearity are obtained.

**NOTE:**

The 10.7 MHz marker need not be center positioned on the waveform.

## 2.2 FM TRACKING ADJUSTMENT (UKP-5200/5210)

- **Connection Diagram**

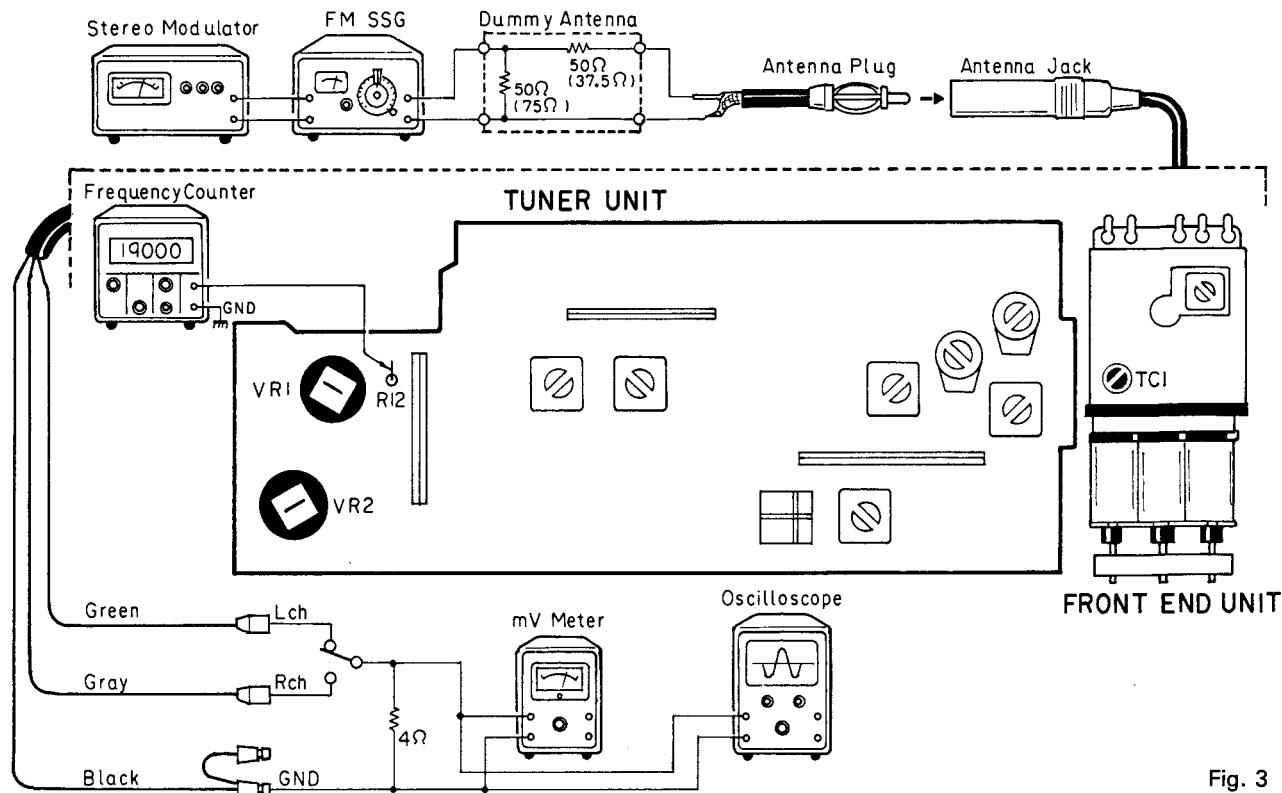


Fig. 3

- **To Adjust**

| SSG Frequency   | Pointer Position | Adjustment Point | Note                               |
|---|------------------|------------------|------------------------------------|
| 1. 87.3 MHz (400 Hz, 100% modulation), output level 15 dB ( $\mu$ V)  | Minimum          | TC1              | 87.3 MHz can be received           |
| 2. 108.5 MHz (400 Hz, 100% modulation), output level 15 dB ( $\mu$ V) | Maximum          |                  | Check if 108.5 MHz can be received |

## 2.3 FM MPX ADJUSTMENT (UKP-5200/5210)

- **Connection Diagram (shown in Fig. 3)**

Switch position

Mono/Stereo switch ..... Stereo

- **To Adjust**

1. Obtain non-modulation signal by setting SSG output at 60 dB ( $\mu$ V). Adjust VR1 so that the frequency counter indicates  $19\text{ kHz} \pm 20\text{ Hz}$ .
2. Obtain stereo modulation signal by setting SSG output at 60 dB ( $\mu$ V). Adjust VR2 to secure maximum separation.

## 2.4 FM IF ADJUSTMENT (UKP-5600)

### • Connection Diagram

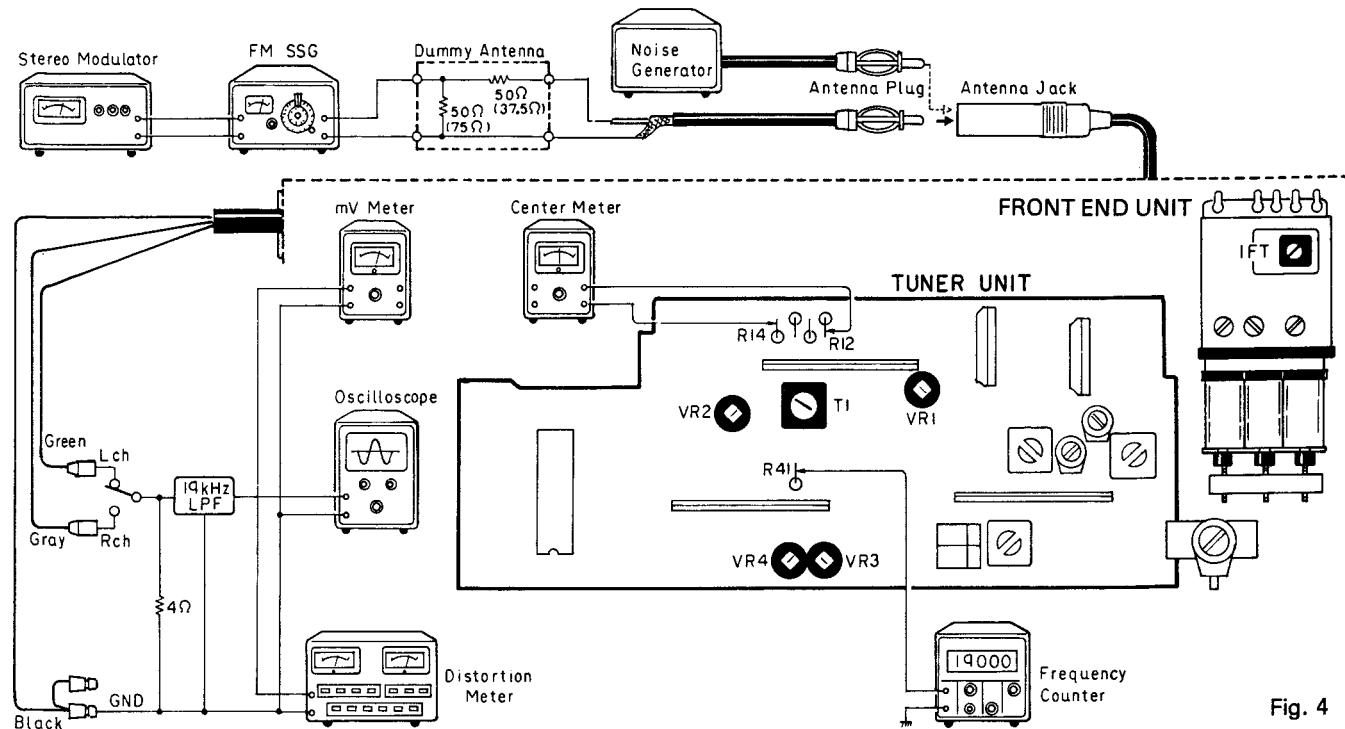


Fig. 4

### • To Adjust

1. Add input signal from noise generator and adjust T1 so that the pointer of center meter (use one graduated for over 200  $\mu$ A) will come to the center.
2. Add output signal of 98 MHz 60 dB from SSG, multisignal of modulated frequency 1 kHz of stereo modulator, and tune to 98 MHz on the dial (the pointer of the center meter is at the center).
3. Adjust IFT (front end unit) so that separated signal will be minimal in its distortion factor.
4. Connect the playback noise generator, and check that the center meter pointer is at the center. Readjust if pointer is not at center.

## 2.5 FM MPX ADJUSTMENT (UKP-5600)

### • Connection Diagram (shown in Fig. 4)

### • To Adjust

1. Select the Mono/Auto switch to AUTO position.
2. Obtain non-modulation signal by setting SSG output at 60 dB ( $\mu$ V) 98 MHz. Adjust VR3 so that the frequency counter indicates 19 kHz  $\pm$ 30 Hz.
3. Obtain stereo modulation signal by setting SSG output at 60 dB ( $\mu$ V). Adjust VR2 to secure maximum separation.

## 2.6 AUTO LEVEL ADJUSTMENT (UKP-5600)

### • Connection Diagram (shown in Fig. 4)

#### • To Adjust

1. Select the Mono/Auto switch to AUTO position.
2. Set SSG at 98 MHz and tune using the tuning knob.
3. Set SSG to an output level of 20 dB ( $\mu$ V), and adjust VR4 to a separation of 5 dB (between the right and left channels).

4. Set SSG to 100% modulation at 400 Hz.
5. Set antenna input at 60 dB ( $\mu$ V), and turn volume control so that mV meter pointer is at 0 dB.
6. Set antenna input at 15 dB ( $\mu$ V), turn VR1, and adjust so mV meter pointer is at -3 dB.

### Noise Generator

A noise generator is used when adjusting the FM IF. The noise generator circuit and pattern diagrams below are for reference.

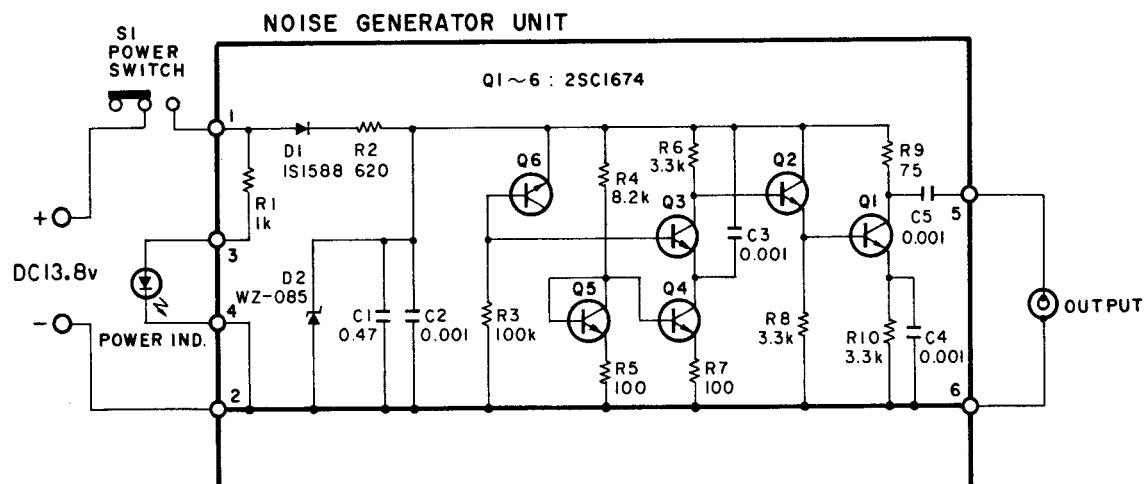


Fig. 5

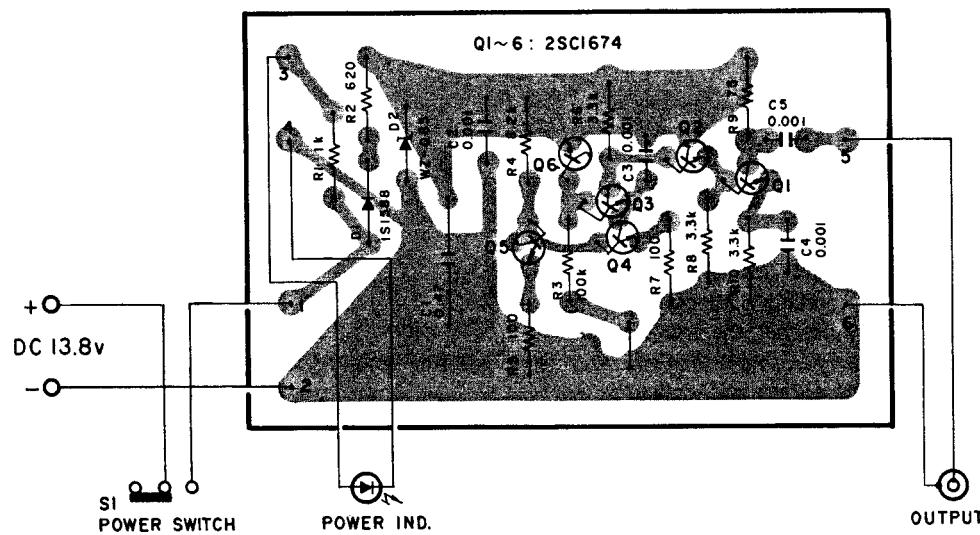


Fig. 6

## 2.7 FM TRACKING ADJUSTMENT (UKP-5600)

- Connection Diagram

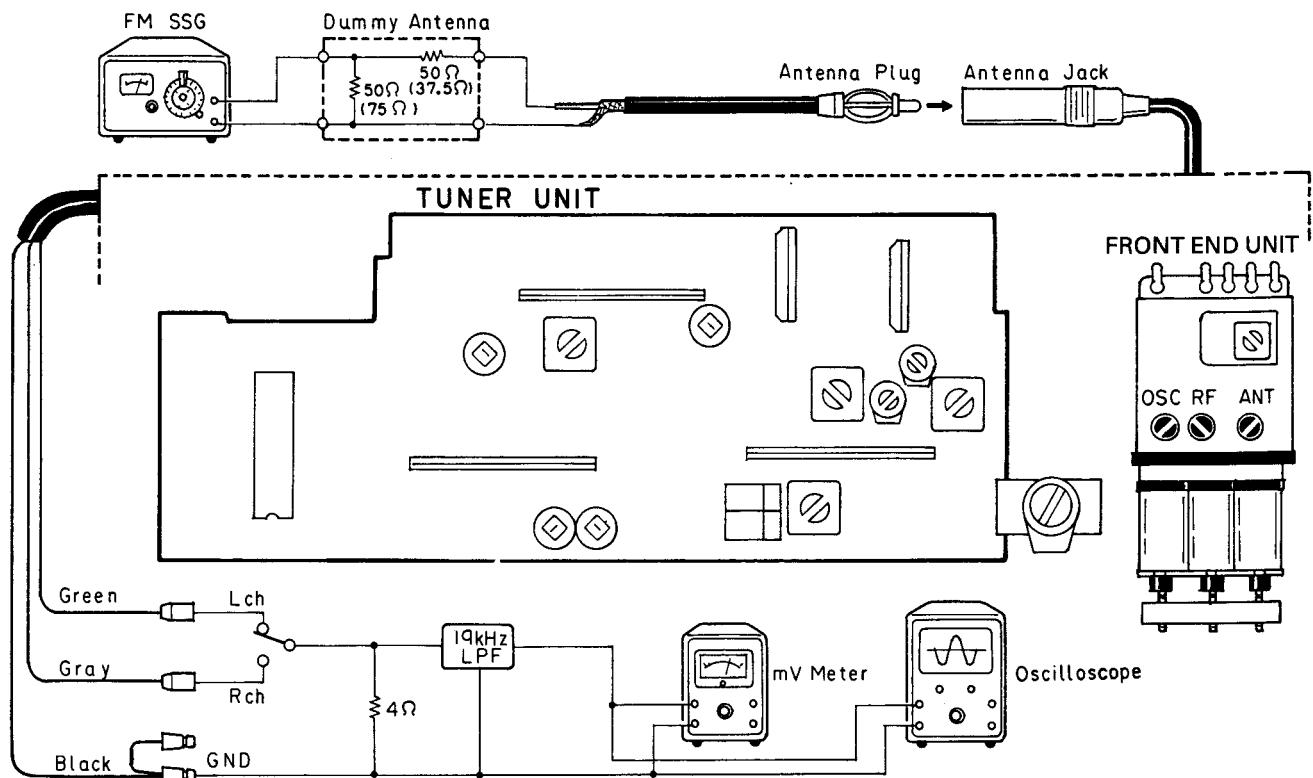


Fig. 7

- To Adjust

| SSG Frequency   | Pointer Position | Adjustment point               | Note                               |
|---|------------------|--------------------------------|------------------------------------|
| 1. 87 MHz (400 Hz, 100% modulation), output level 10 dB ( $\mu$ V)    | Minimum          | Front End Unit OSC Trimmer     | 87 MHz can be received             |
| 2. 109.5 MHz (400 Hz, 100% modulation), output level 10 dB ( $\mu$ V) | Maximum          |                                | Check if 109.5 MHz can be received |
| 3. 98 MHz (400 Hz, 100% modulation), output level 7 dB ( $\mu$ V)     | Tuned position   | Front End Unit ANT, RF Trimmer | Maximum output                     |

## 2.8 AM IF ADJUSTMENT (UKP-5200/5210)

- Connection Diagram

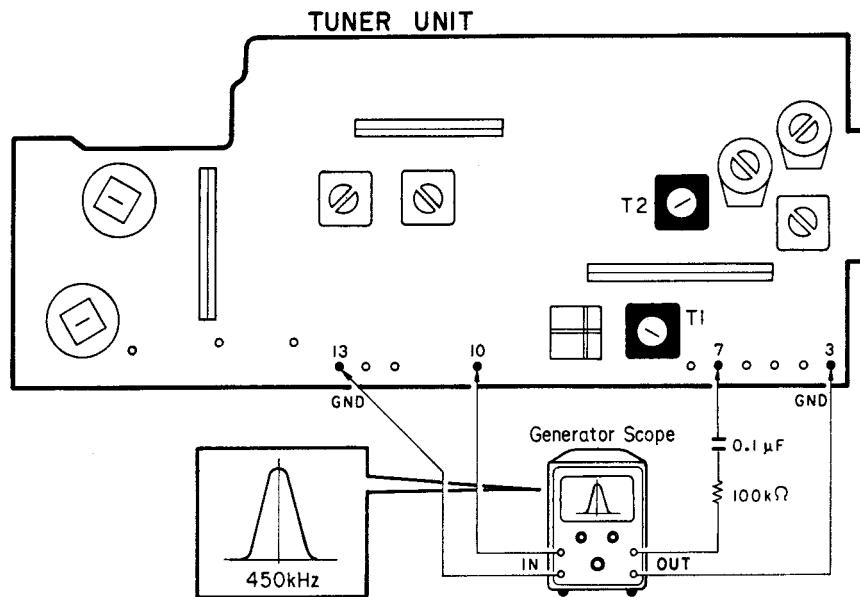


Fig. 8

- To Adjust

1. Set Generator Scope as Follows:  
 Frequency centering on sweep ..... 450 kHz  
 Input level ..... 0.3 Vp-p/cm  
 Output level ..... 3 mV~10 mV
2. Turn the cores of T1 and T2 and adjust so that U-curve will be at maximum amplitude and best symmetry and best breadth (a top of wave shape).

## 2.9 AM IF ADJUSTMENT (UKP-5600)

- Connection Diagram

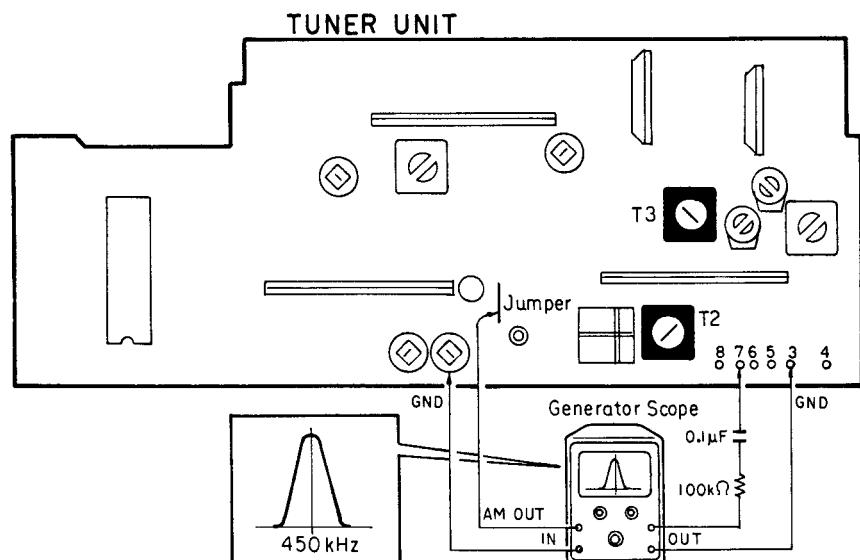


Fig. 9

• To Adjust

1. Set Generator Scope as Follows:  
Frequency centering on sweep ..... 450 kHz  
Input level ..... 0.3 Vp-p/cm  
Output level ..... 3 mV~10 mV
2. Turn the cores of T2 and T3 and adjust so that U-curve will be at maximum amplitude and best symmetry and best breadth (a top of wave shape).

2.10 AM TRACKING ADJUSTMENT (UKP-5200/5210)

• Connection Diagram

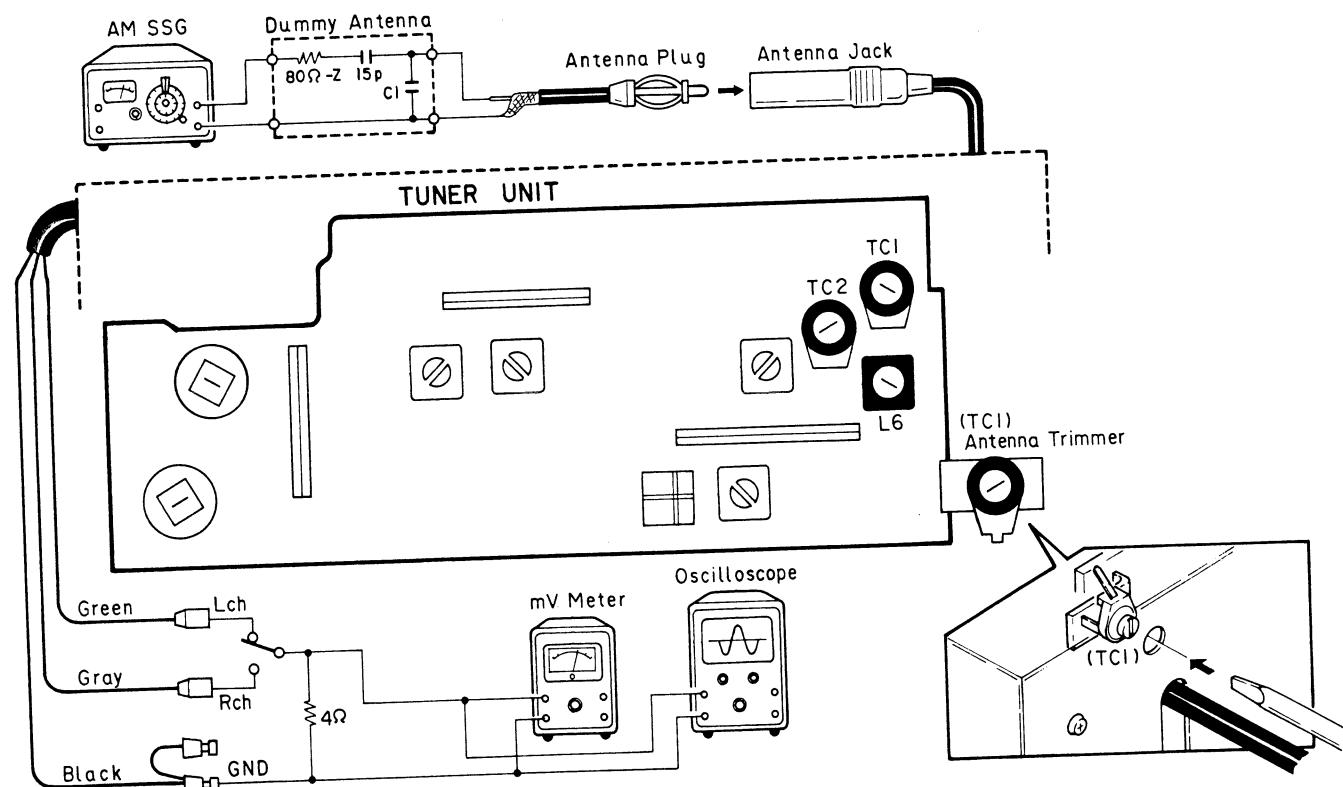


Fig. 10

**NOTICE:**  
Select C1 so that total capacity of 80 pF is attained from the direction of receiver jack.  
Z: Output impedance of the S.S.G.

• To Adjust

| SSG Frequency  | Pointer Position  | Adjustment Point             | Note                      |
|--|-------------------|------------------------------|---------------------------|
| 1. 520 kHz (400 Hz, 30% modulation), output level 20 dB ( $\mu$ V)   | Minimum           | L6                           | 520 kHz can be received   |
| 2. 1,650 kHz (400 Hz, 30% modulation), output level 20 dB ( $\mu$ V)   | Maximum           | TC1                          | 1,650 kHz can be received |
| 3. Repeat (1) and (2) alternately and adjust so that broadcast can be received at the frequency between 520 kHz and 1,650 kHz. |                   |                              |                           |
| 4. 1,400 kHz (400 Hz, 30% modulation), output level 20 dB ( $\mu$ V)   | Tune to 1,400 kHz | TC2<br>TC1 (Antenna Trimmer) | mV meter at maximum       |

2.11 AM TRACKING ADJUSTMENT (UKP-5600)

• Connection Diagram

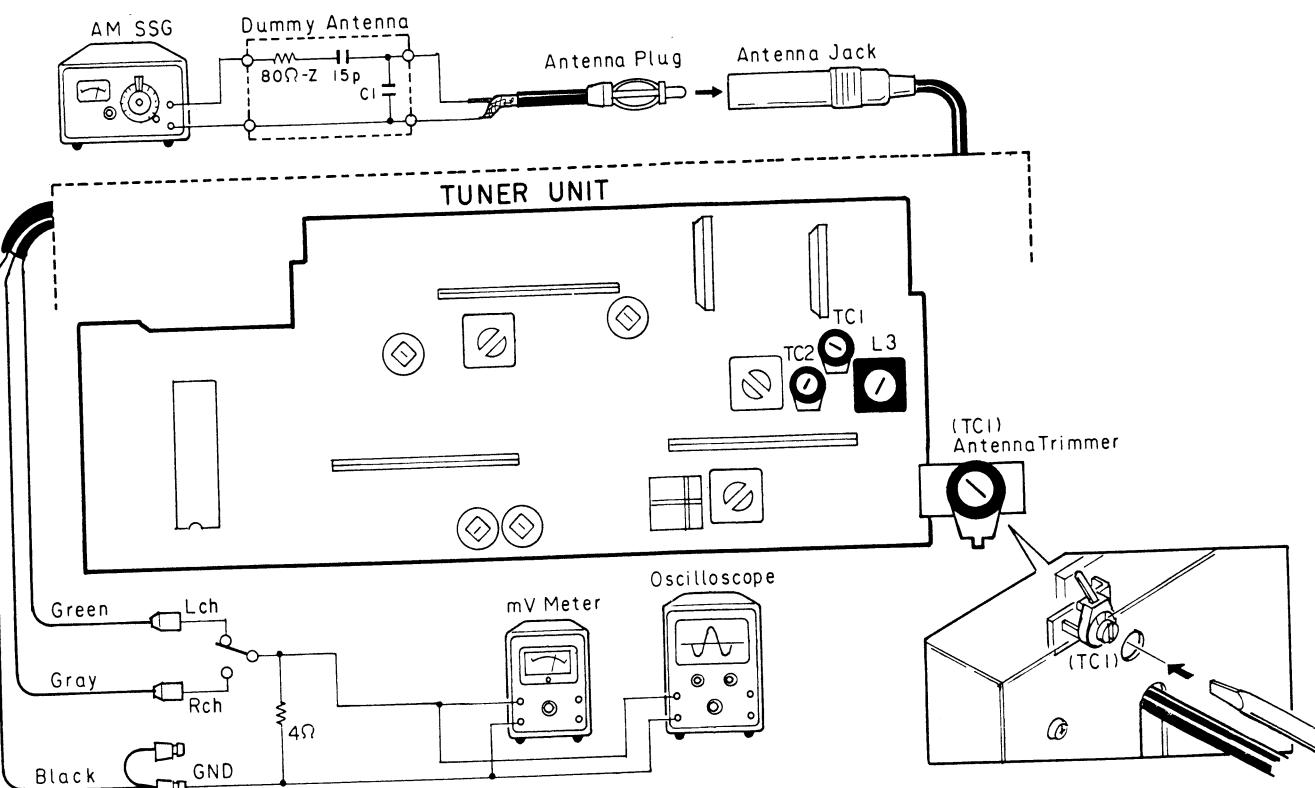


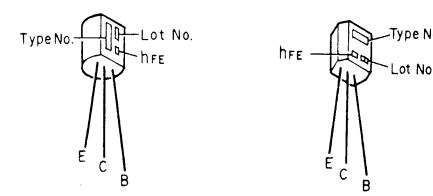
Fig. 11

• To Adjust

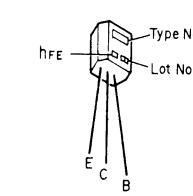
| SSG Frequency  | Pointer Position  | Adjustment Point             | Note                      |
|--|-------------------|------------------------------|---------------------------|
| 1. 520 kHz (400 Hz, 30% modulation), output level 20 dB ( $\mu$ V)   | Minimum           | L3                           | 520 kHz can be received   |
| 2. 1,650 kHz (400 Hz, 30% modulation), output level 20 dB ( $\mu$ V)   | Maximum           | TC1                          | 1,650 kHz can be received |
| 3. Repeat (1) and (2) alternately and adjust so that broadcast can be received at the frequency between 520 kHz and 1,650 kHz. |                   |                              |                           |
| 4. 1,400 kHz (400 Hz, 30% modulation), output level 20 dB ( $\mu$ V)   | Tune to 1,400 kHz | TC2<br>TC1 (Antenna Trimmer) | mV meter at maximum       |

## • IC's and Transistors

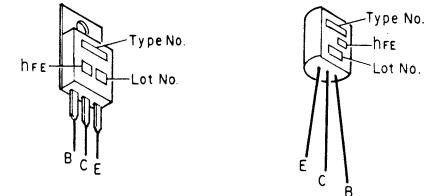
2SC1675



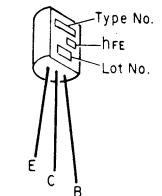
2SC2458



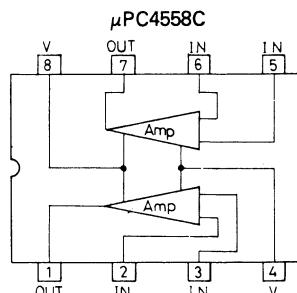
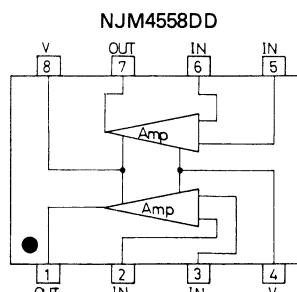
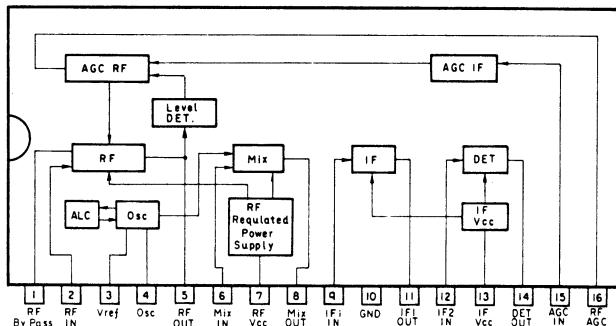
2SB825



2SD468

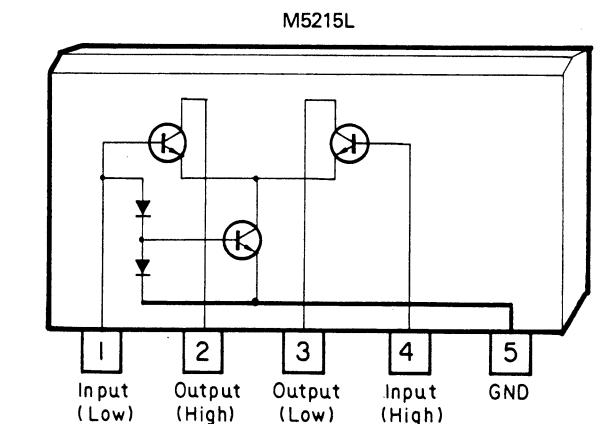
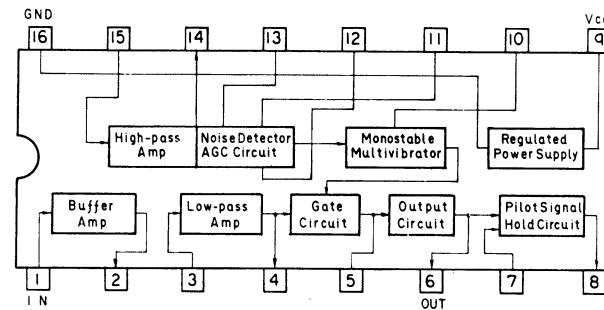


LA1130

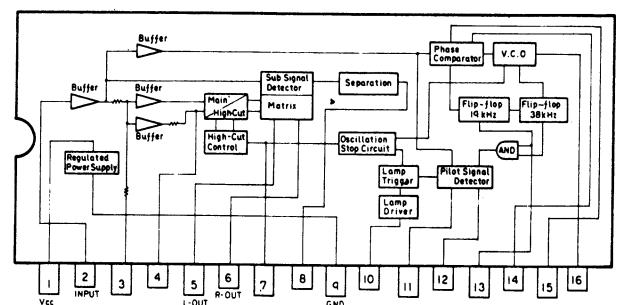


| Part No.   | Indication (Type No., hFE) |
|------------|----------------------------|
| 2SA1162-SO | SO                         |
| 2SA1162-SY | SY                         |
| 2SA1162-SG | SG                         |
| 2SA1179-M4 | M4                         |
| 2SA1179-M5 | M5                         |
| 2SA1179-M6 | M6                         |
| 2SA1179-M7 | M7                         |
| 2SB709-AQ  | AQ                         |
| 2SB709-AR  | AR                         |
| 2SB709-AS  | AS                         |
| 2SC2712-LO | LO                         |
| 2SC2712-LY | LY                         |
| 2SC2712-LG | LG                         |
| 2SC2712-LL | LL                         |
| 2SC2812-L4 | L4                         |
| 2SC2812-L5 | L5                         |
| 2SC2812-L6 | L6                         |
| 2SC2812-L7 | L7                         |
| 2SD601-YQ  | YQ                         |
| 2SD601-YR  | YR                         |
| 2SD601-YS  | YS                         |

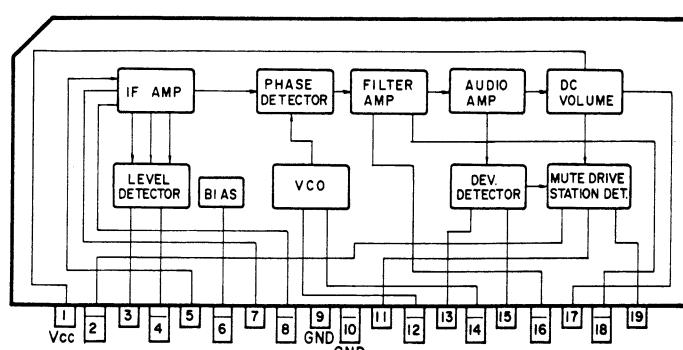
LA2101



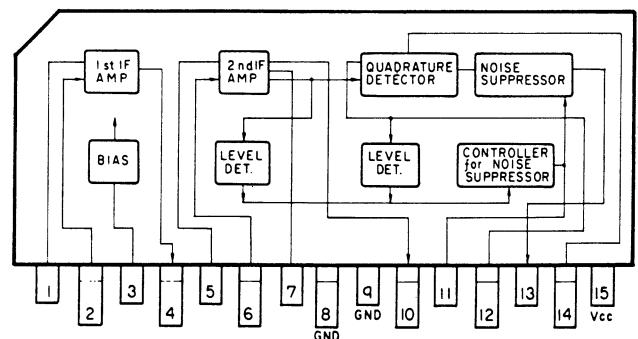
LA3370P



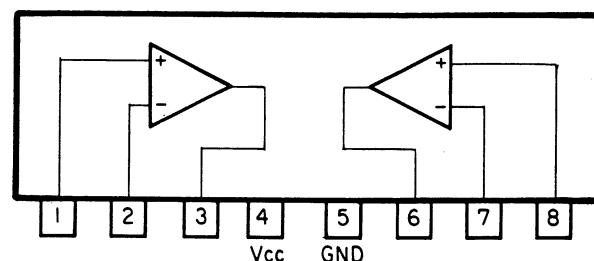
PA4007



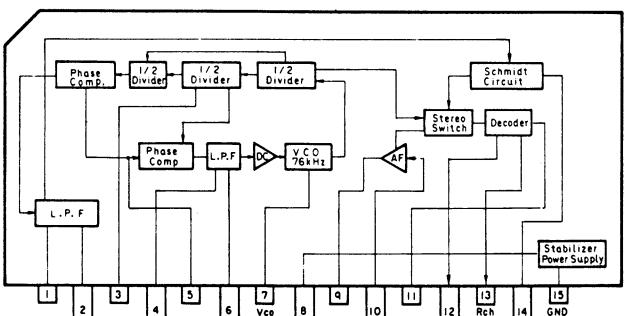
μPC1200V



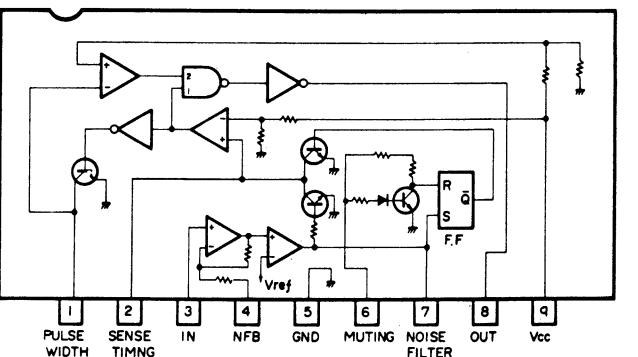
MB3106M



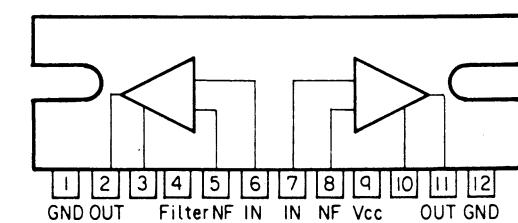
μPC1187V



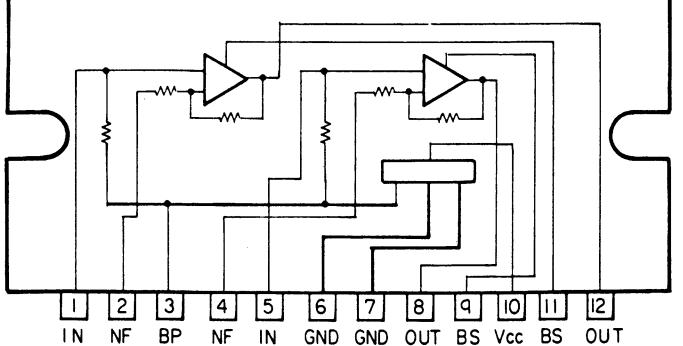
BA338



μPC1185H2

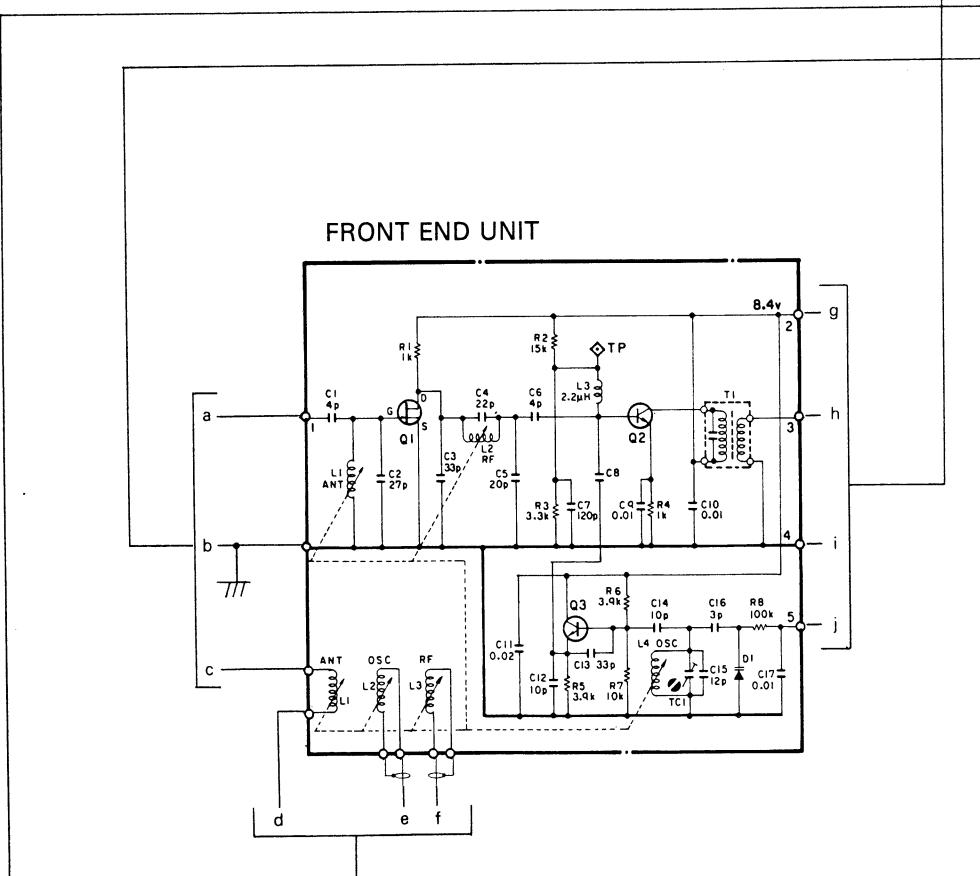
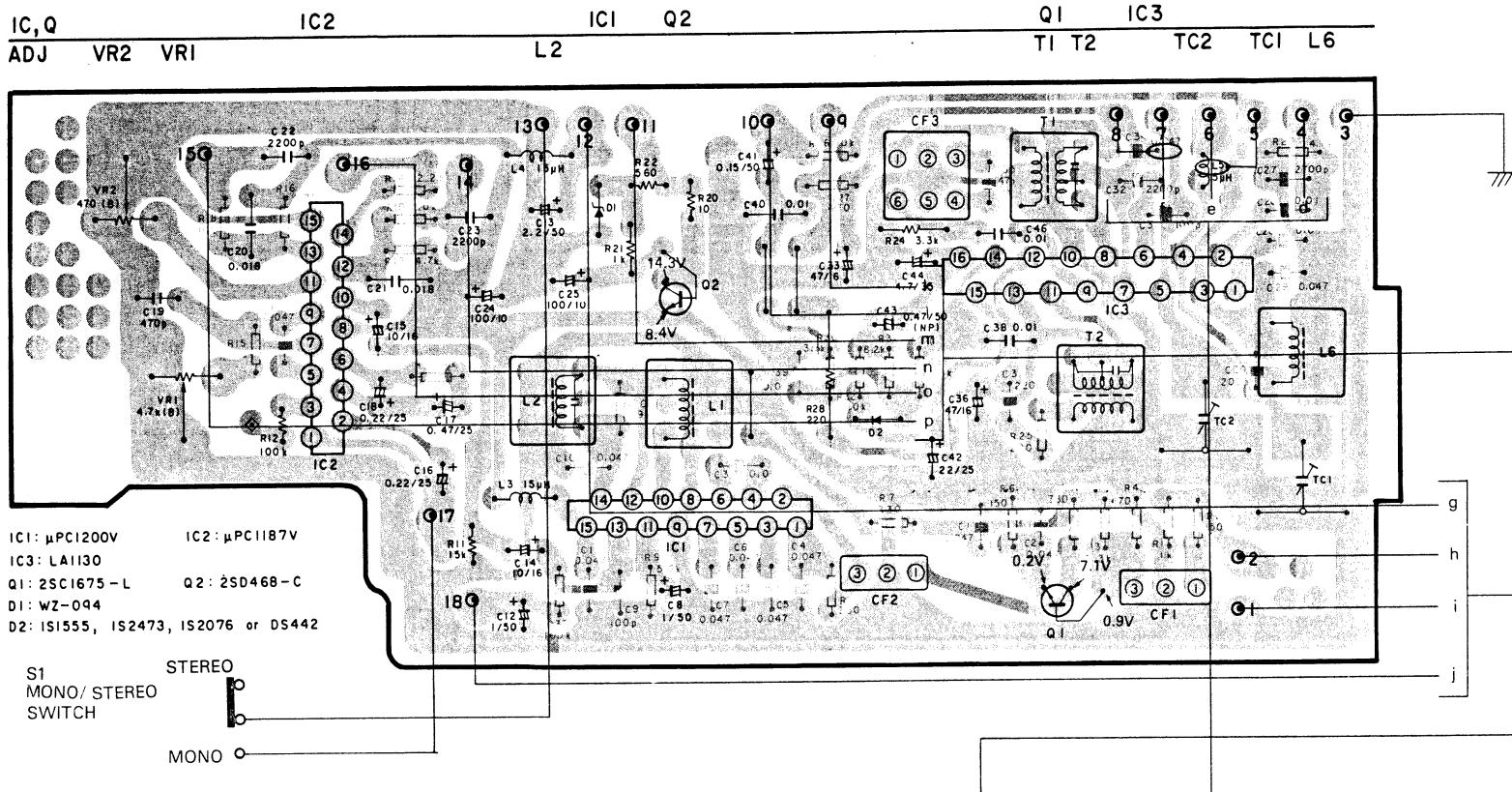


MB3722

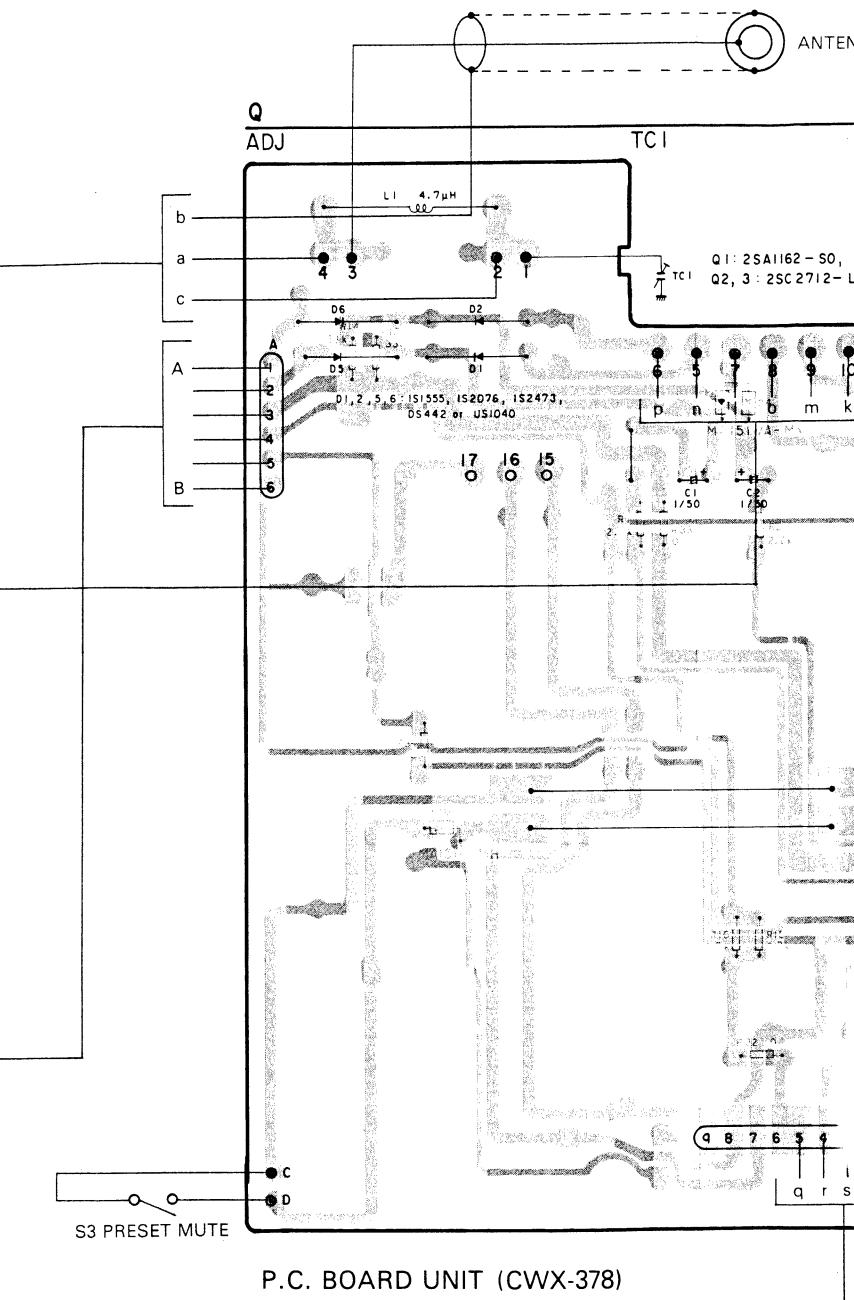
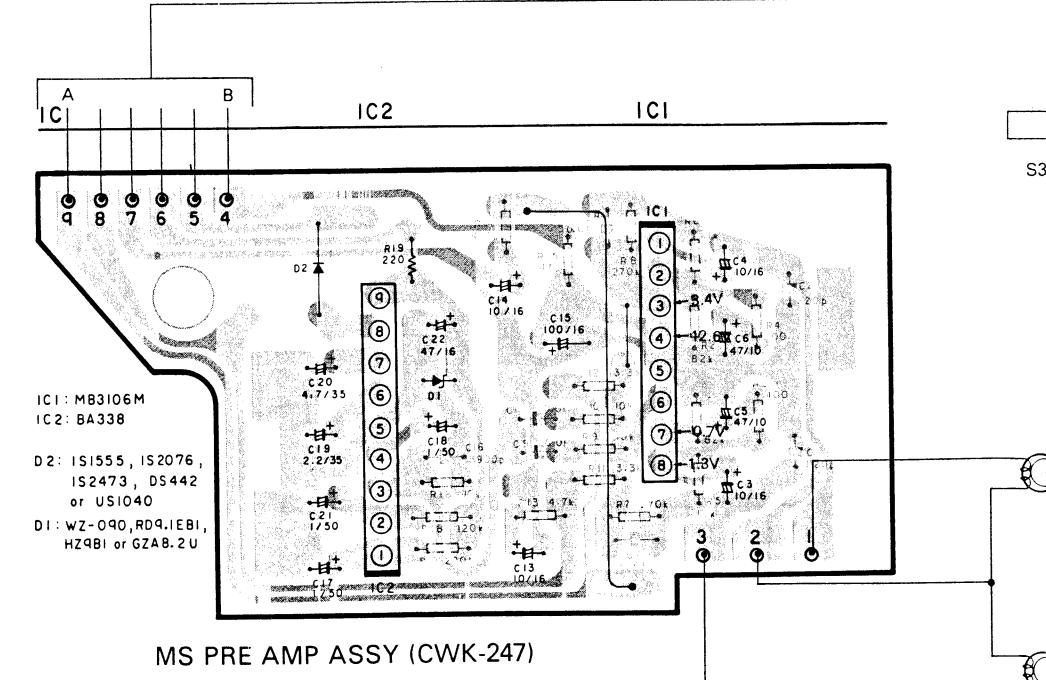


## 3. CONNECTION DIAGRAM (UKP-5200)

TUNER UNIT (CWE-433)



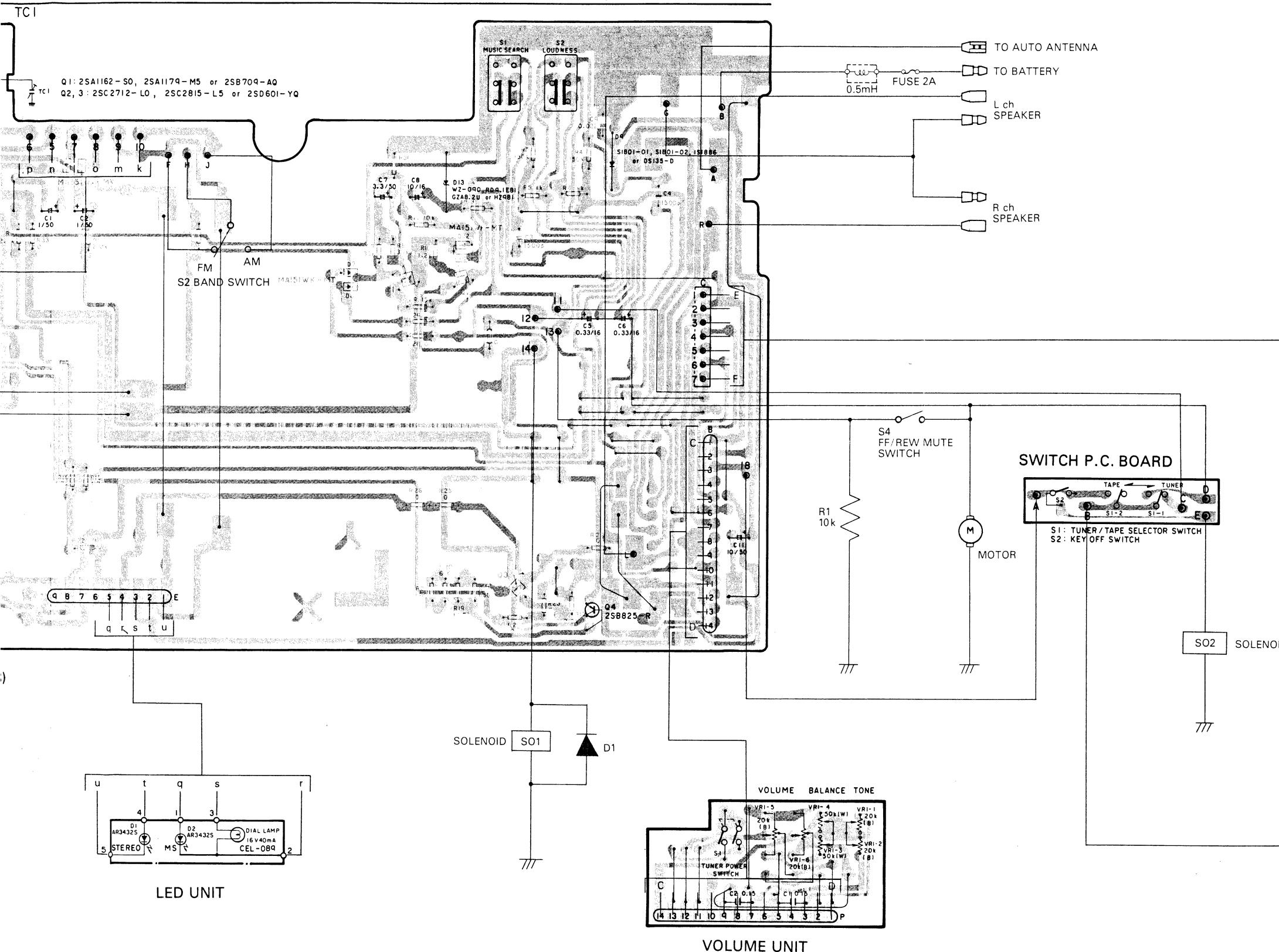
MS PRE AMP ASSY (CWK-247)



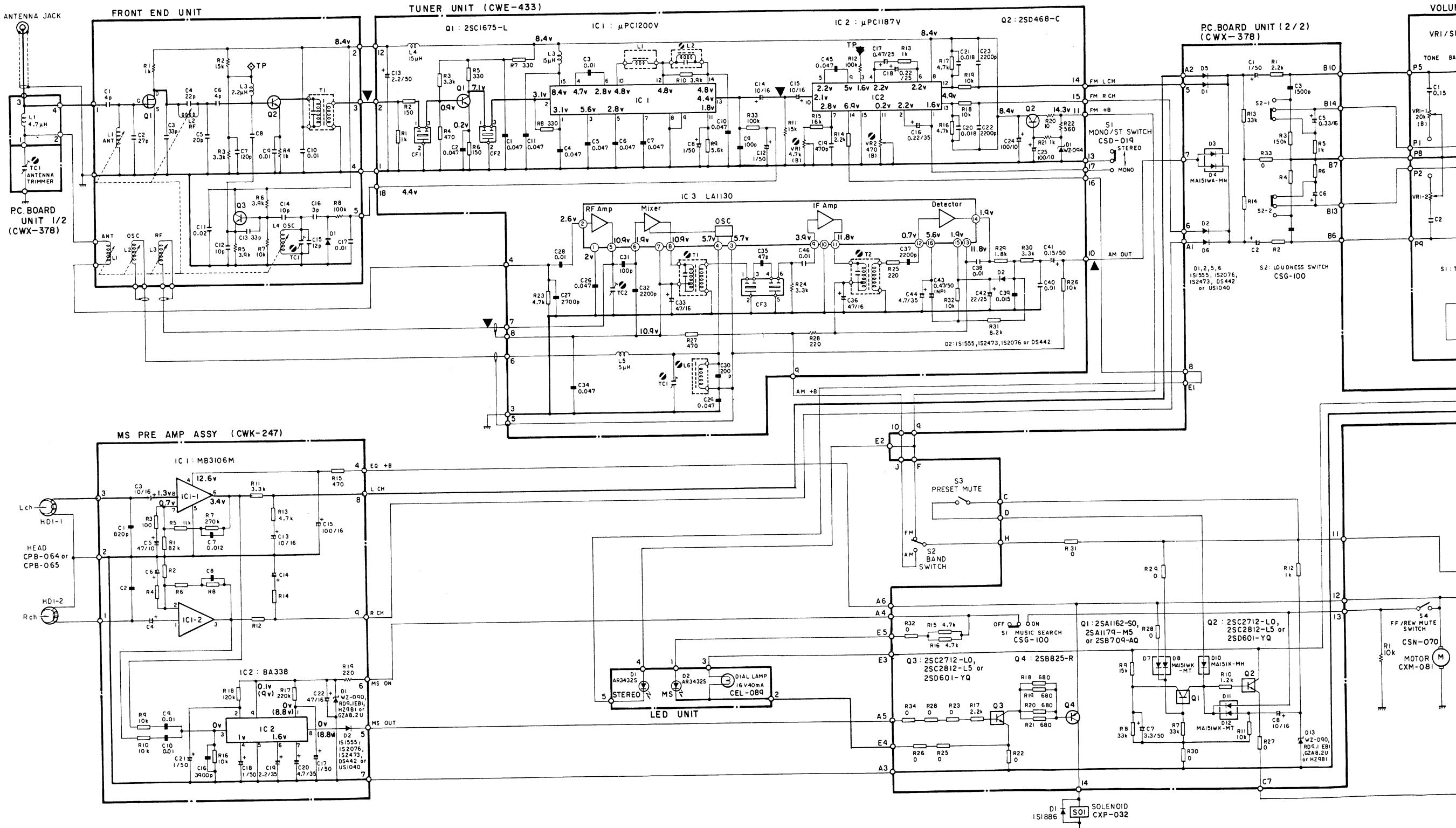


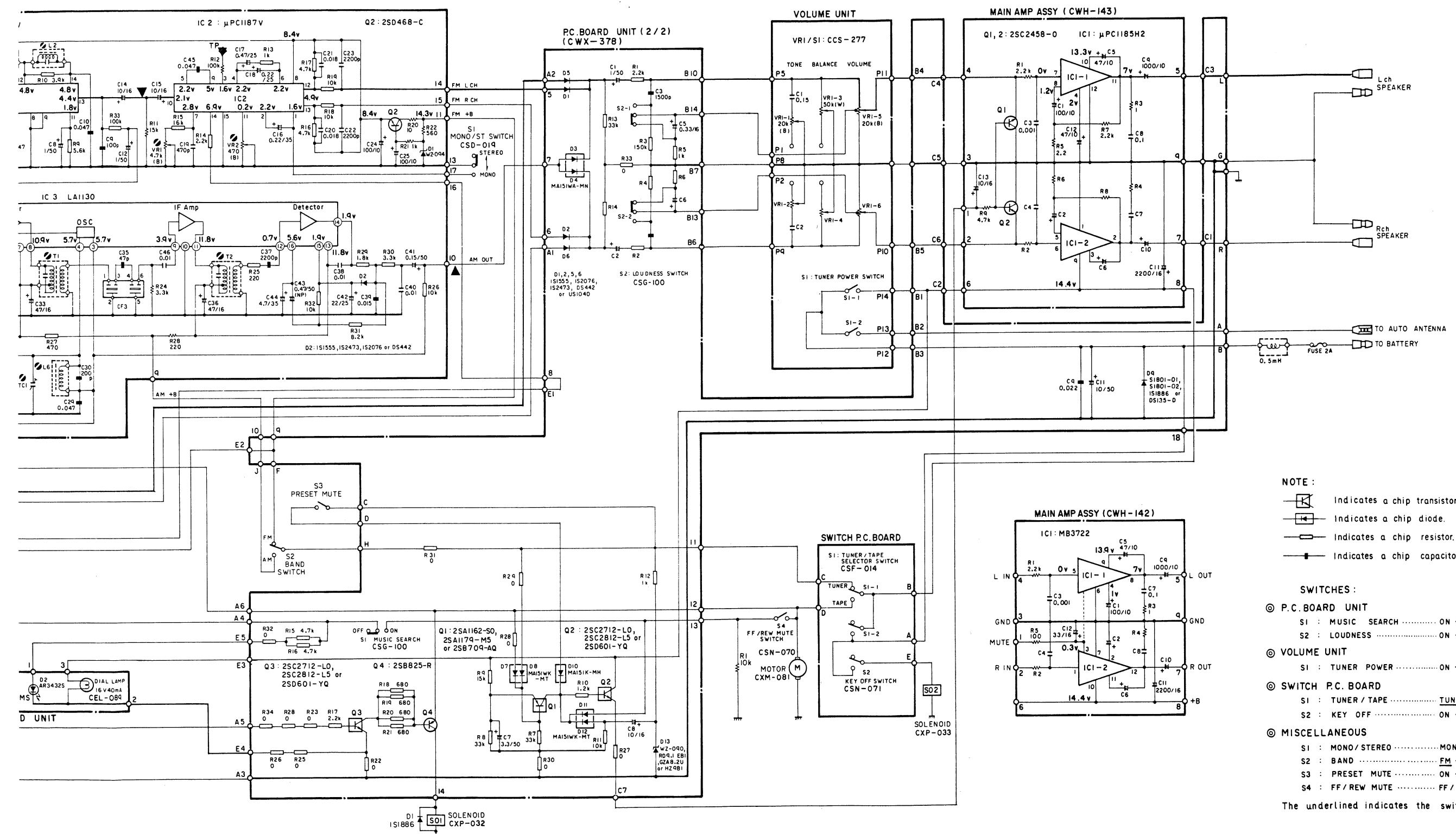
ANTENNA JACK

Q1 Q2 Q3 Q4



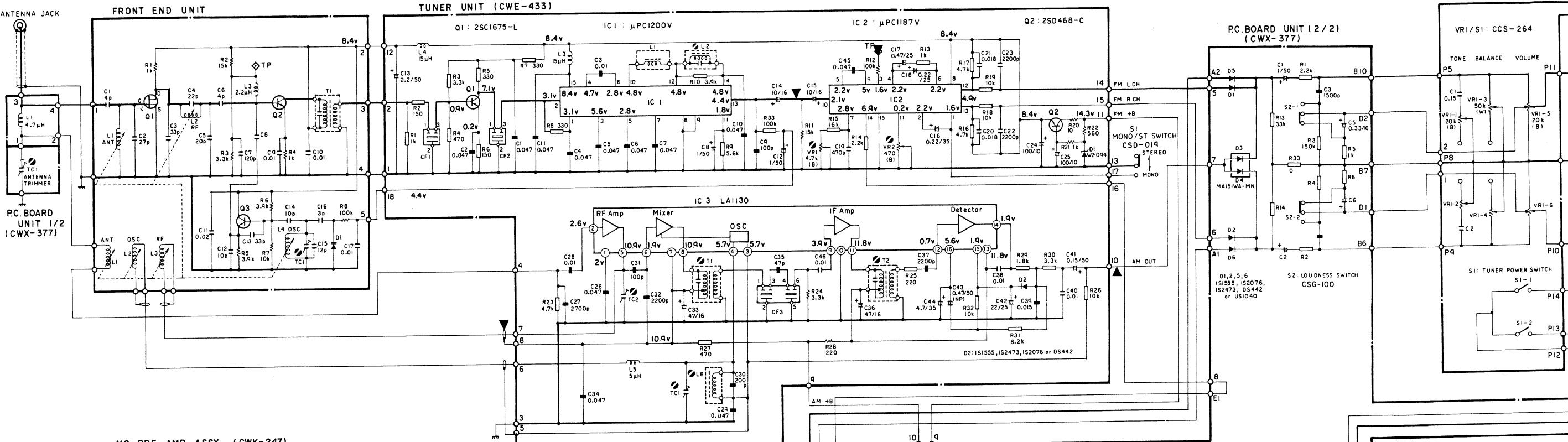
#### 4. SCHEMATIC CIRCUIT DIAGRAM (UKP-5200)





## 5. SCHEMATIC CIRCUIT DIAGRAM (UKP-5210)

A



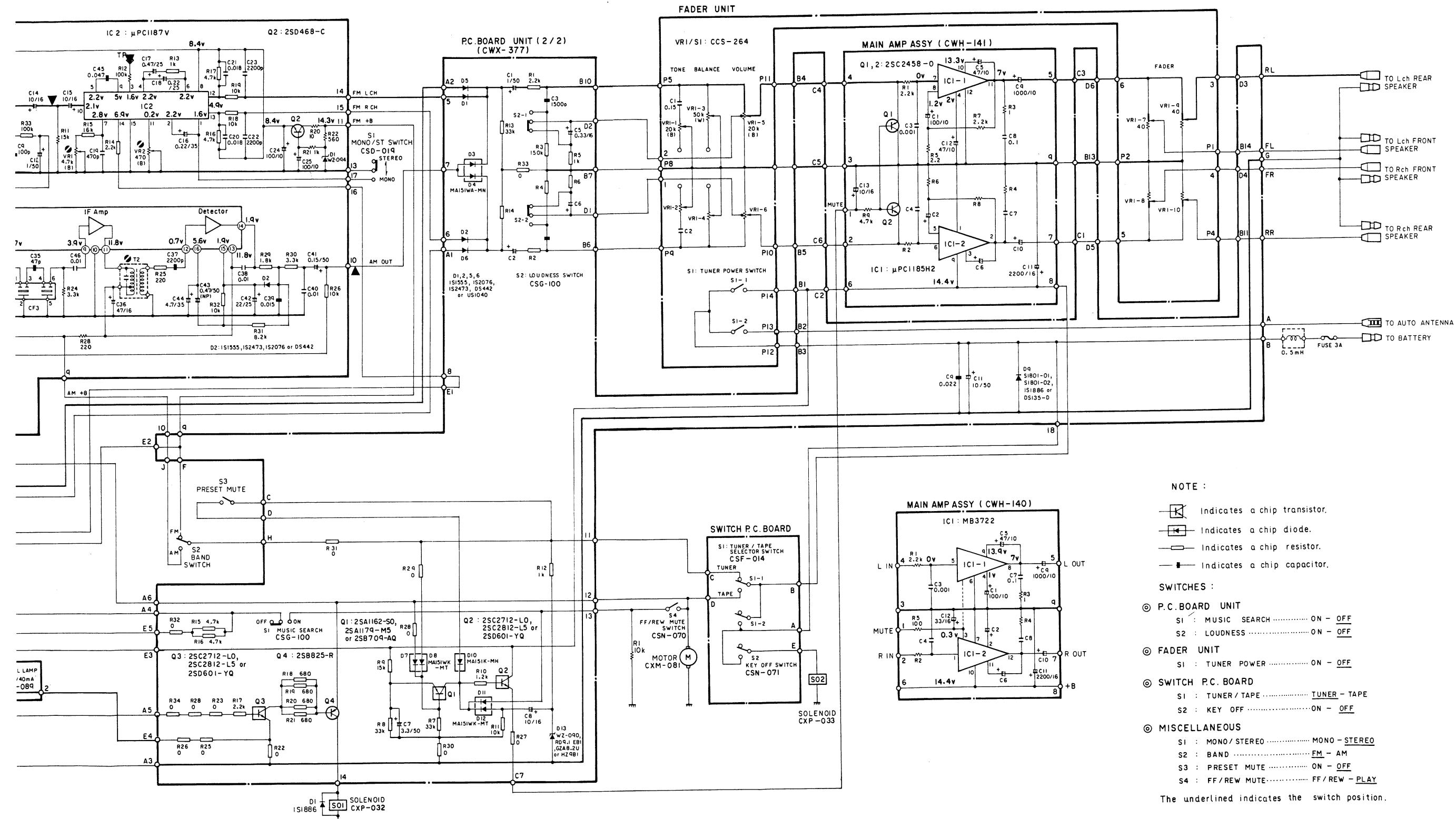
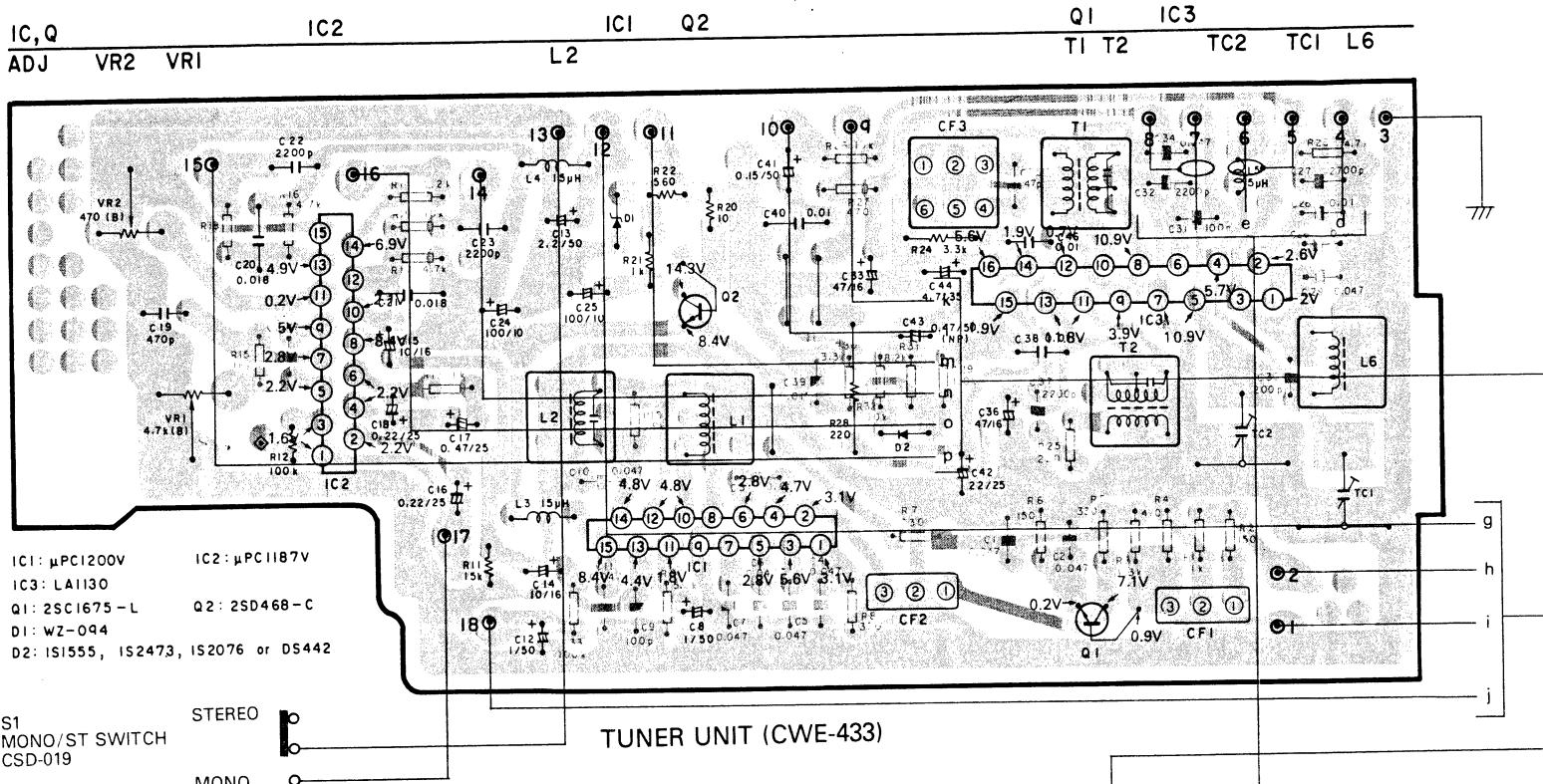


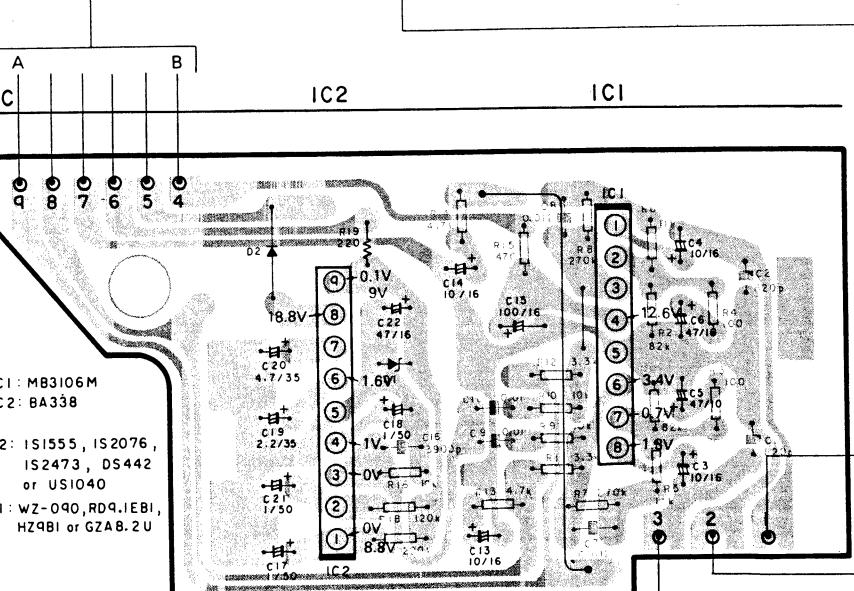
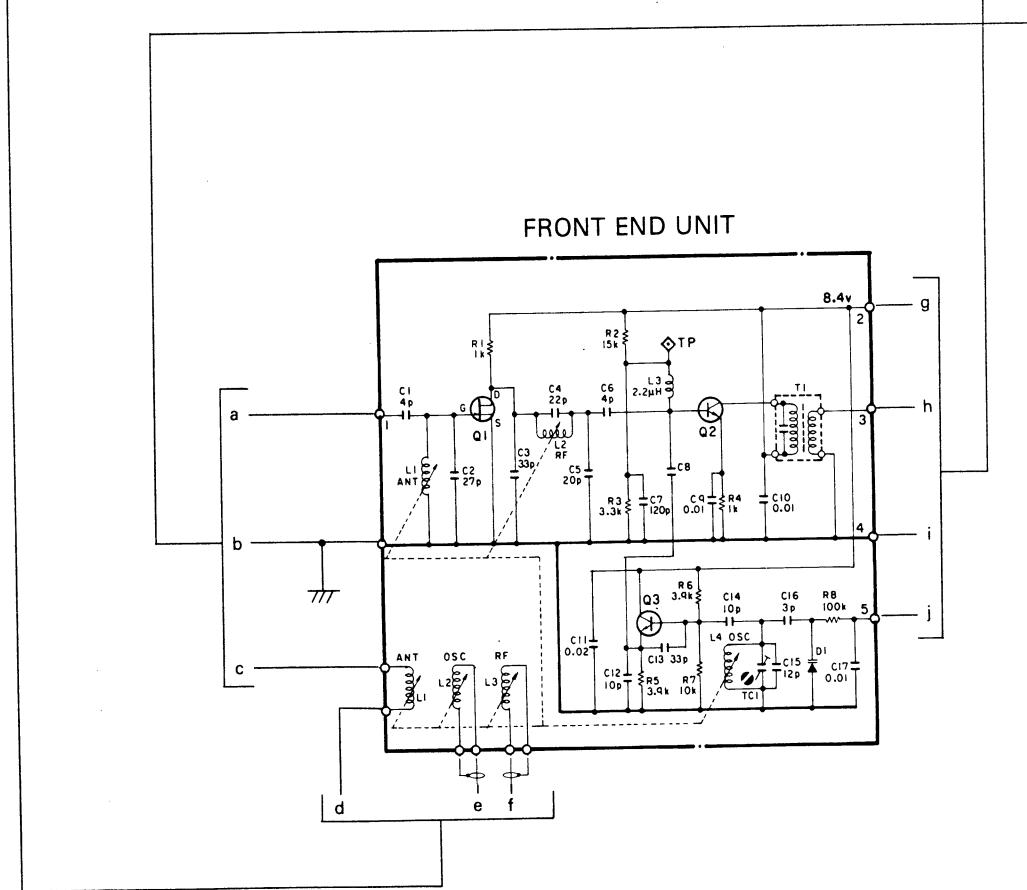
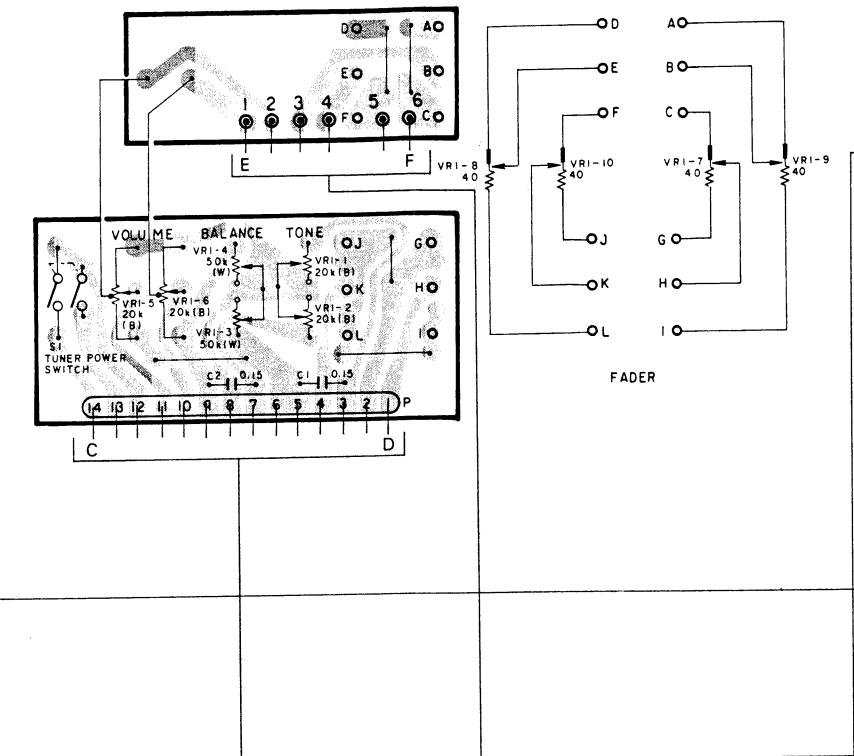
Fig. 14

## 6. CONNECTION DIAGRAM (UKP-5210)



1 2 3 4

FADER UNIT

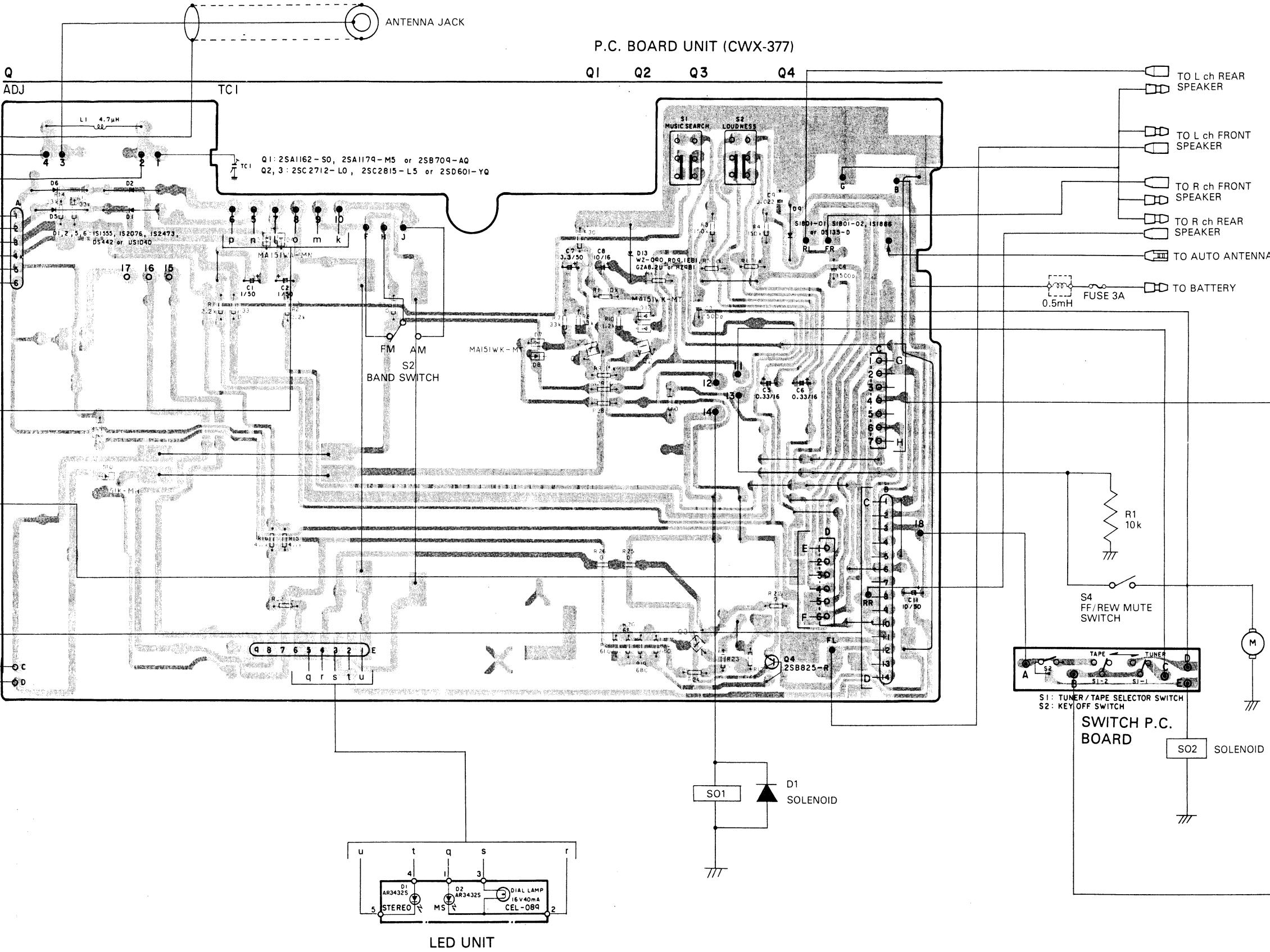


1

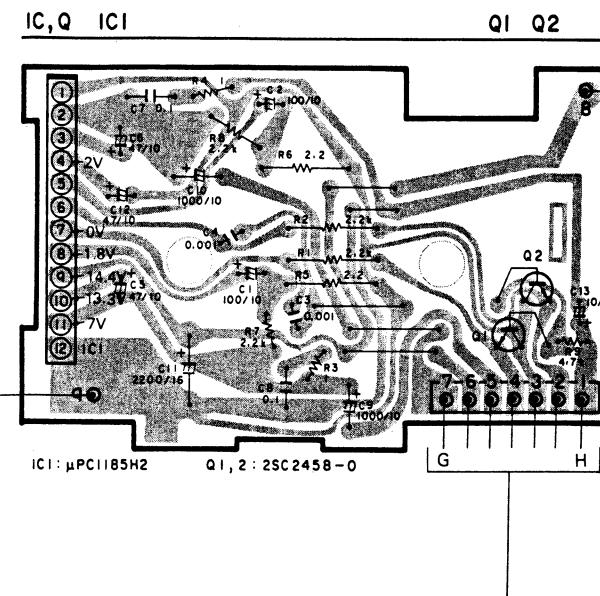
2

3

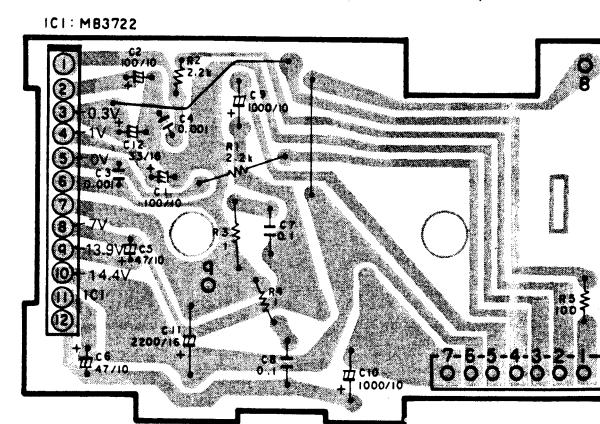
4



MAIN AMP ASSY (CWH-141)

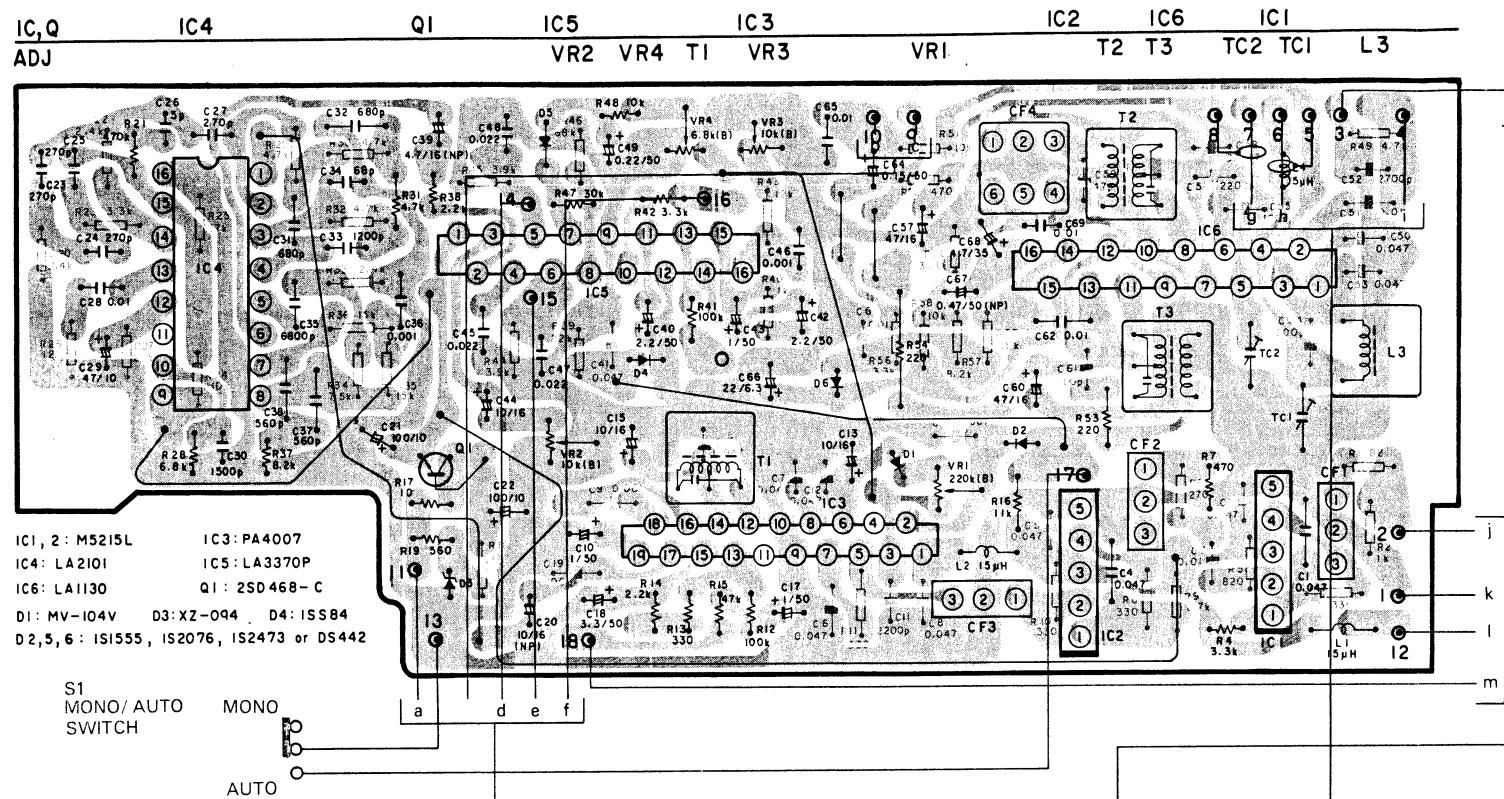


MAIN AMP ASSY (CWH-140)

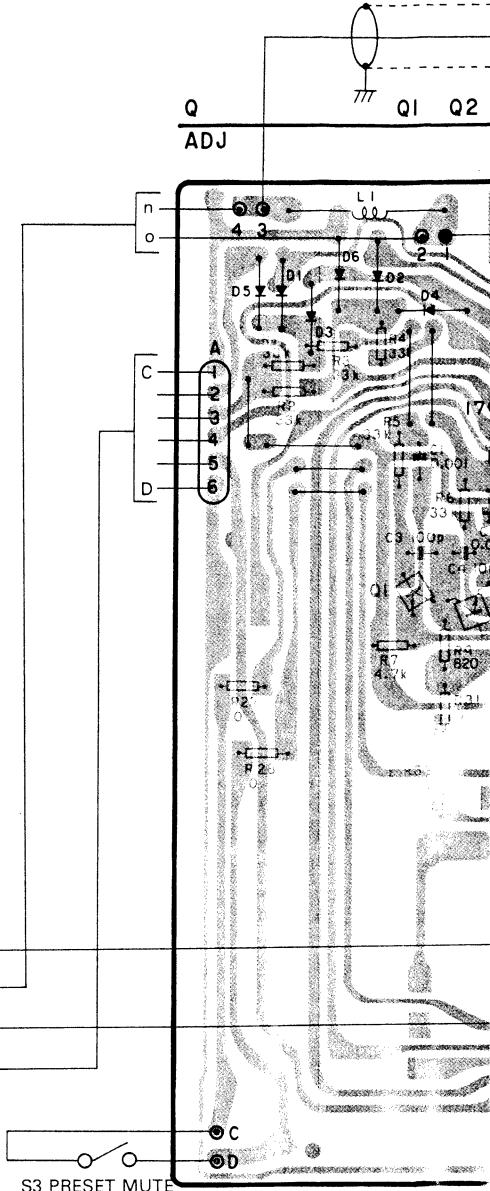
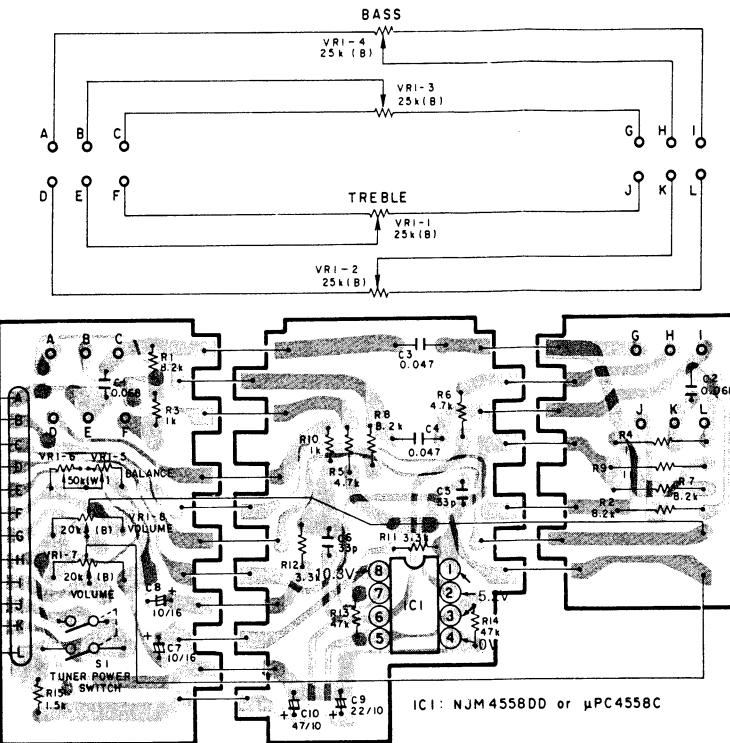


## 7. CONNECTION DIAGRAM (UKP-5600)

TUNER UNIT (CWE-432)

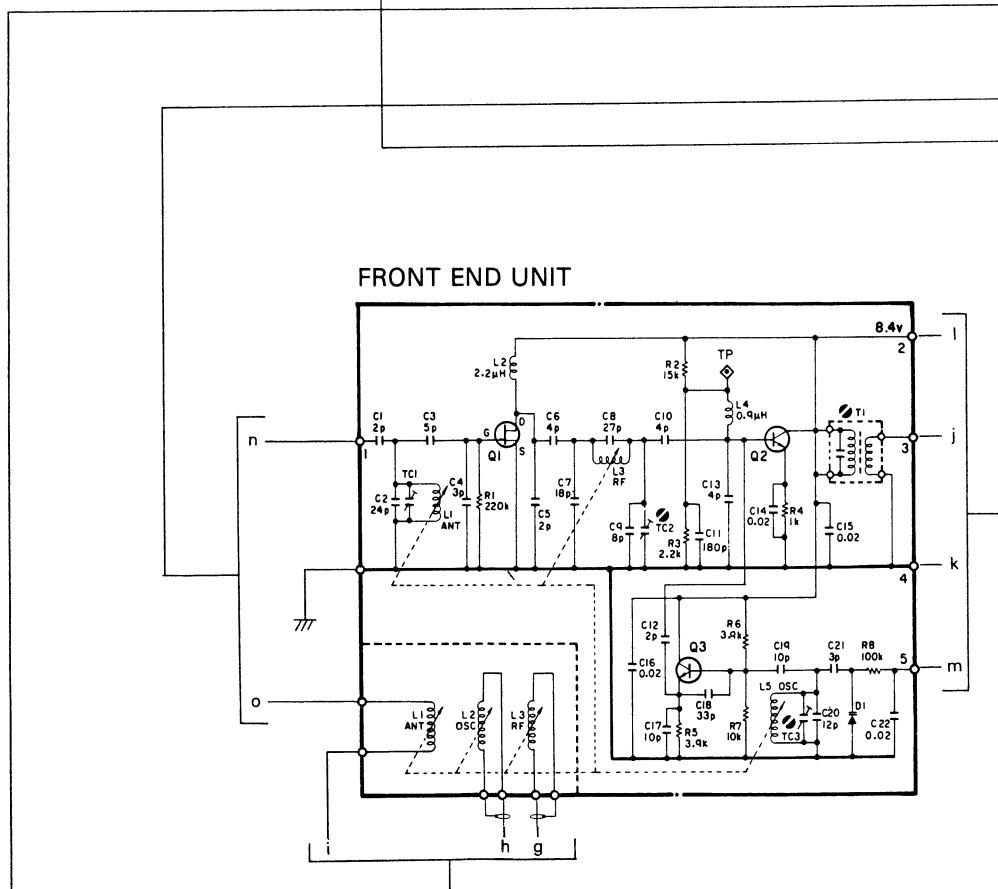


BASS TREBLE UNIT (CWG-101)

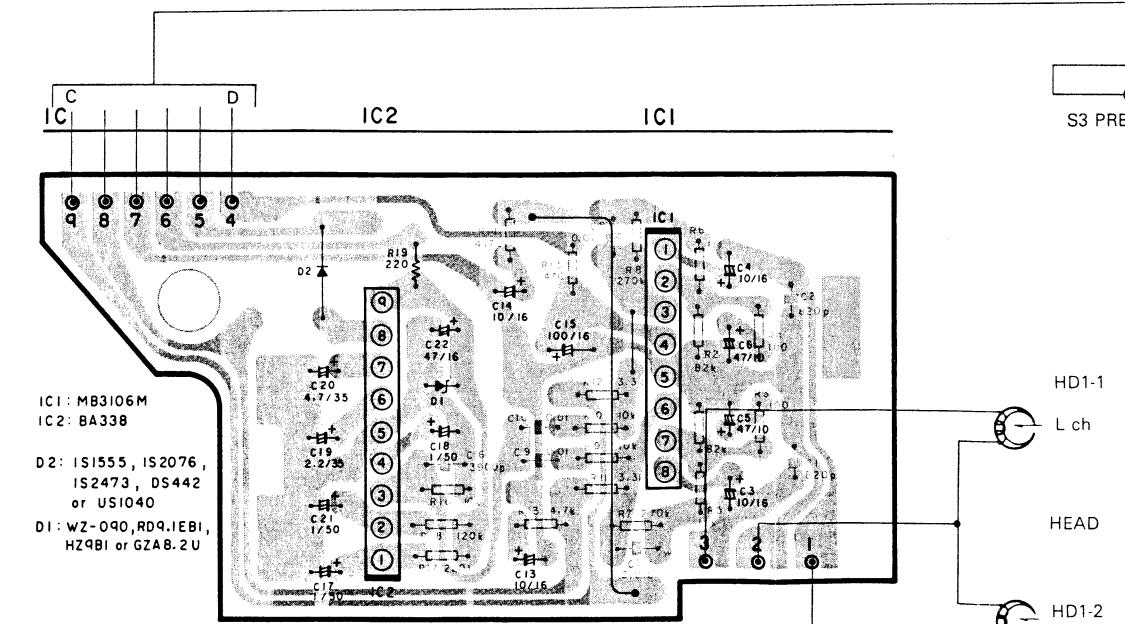


P.C. BOARD UN

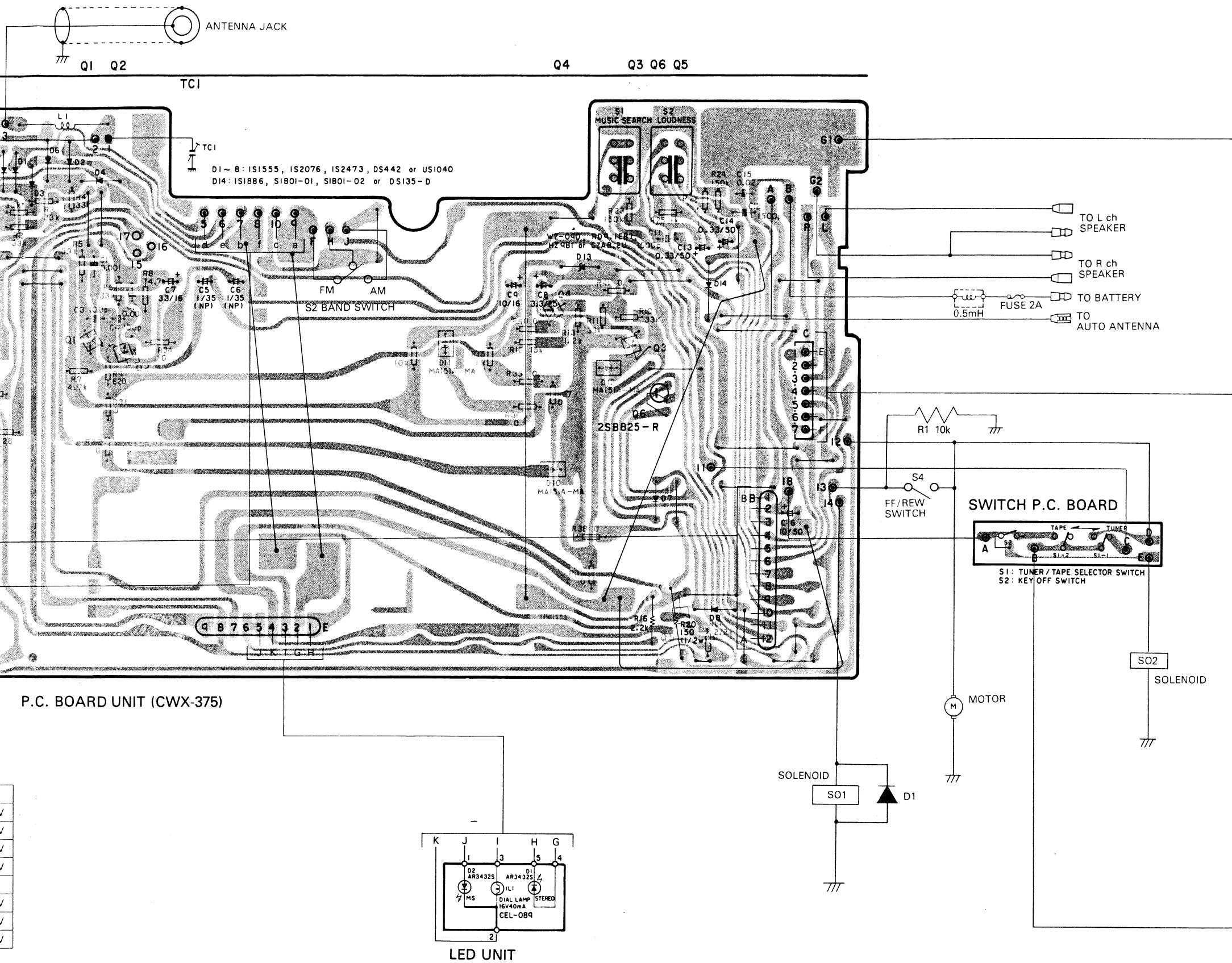
FRONT END UNIT



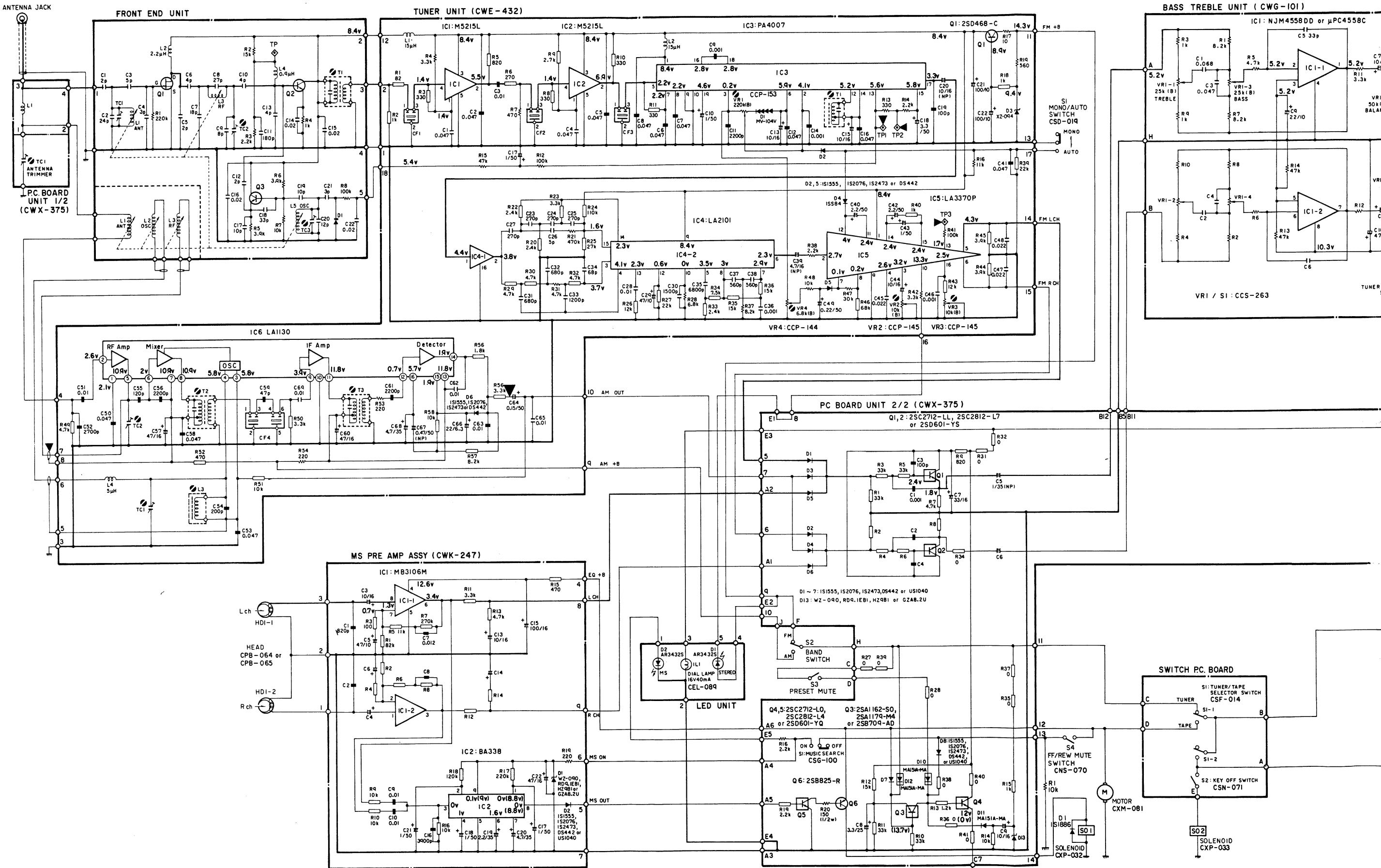
MS PRE AMP ASSY (CWK-247)



|   | IC1   |
|---|-------|
| 1 | 1.3V  |
| 2 | 0.7V  |
| 3 | 3.4V  |
| 4 | 12.6V |
| 5 | 0V    |
| 6 | 3.4V  |
| 7 | 0.7V  |
| 8 | 1.3V  |



## 8. SCHEMATIC CIRCUIT DIAGRAM (UKP-5600)



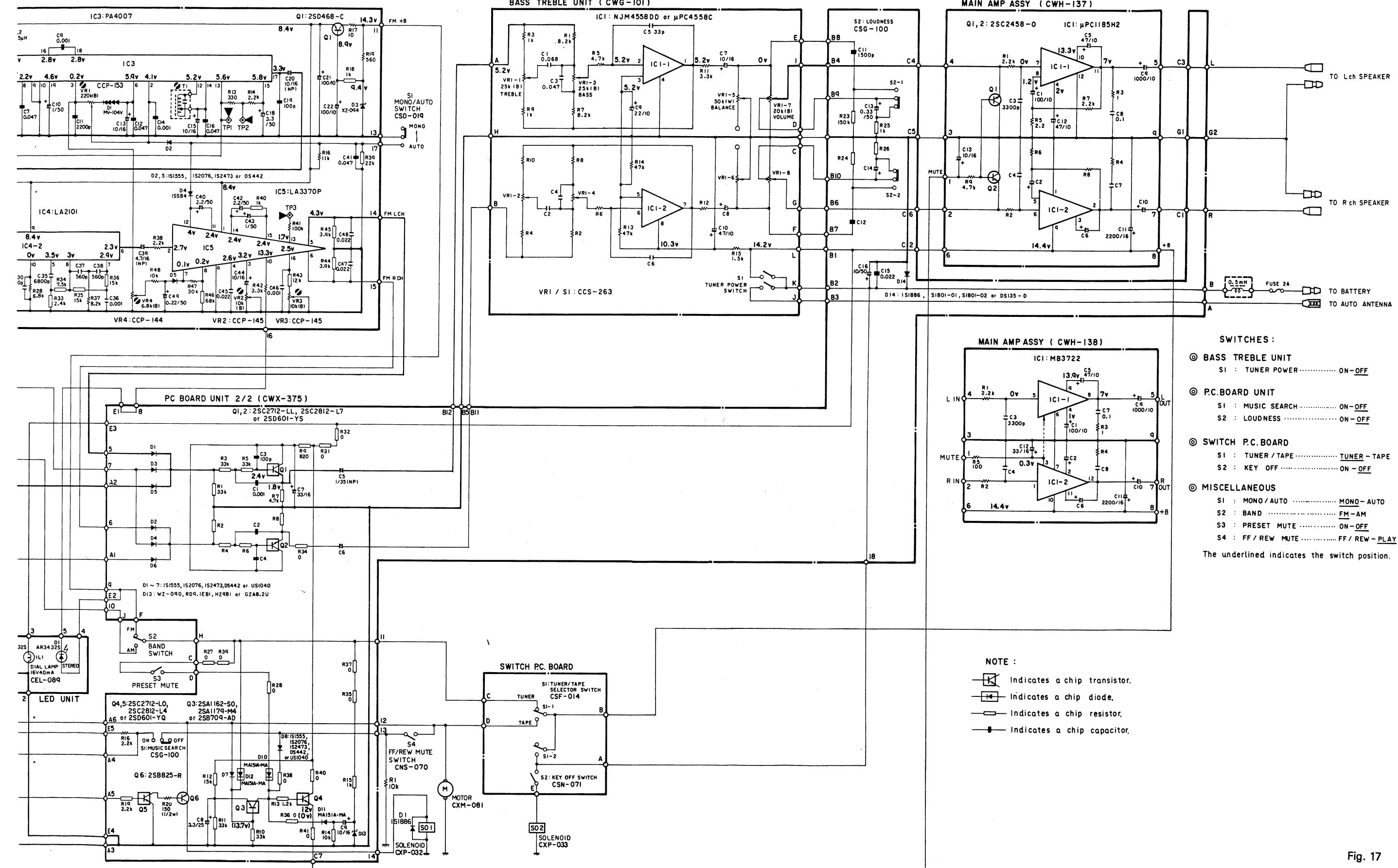


Fig. 17

## 9. CABINET EXPLODED VIEW

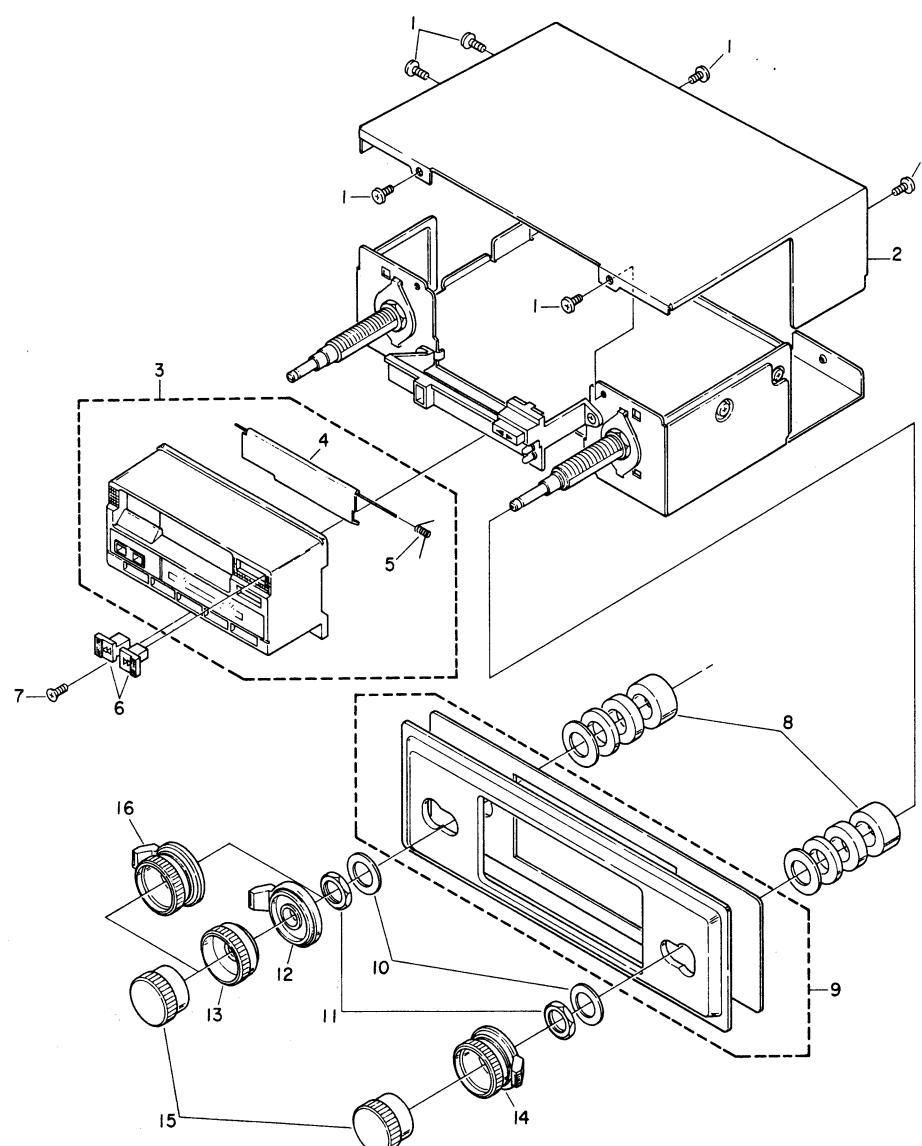
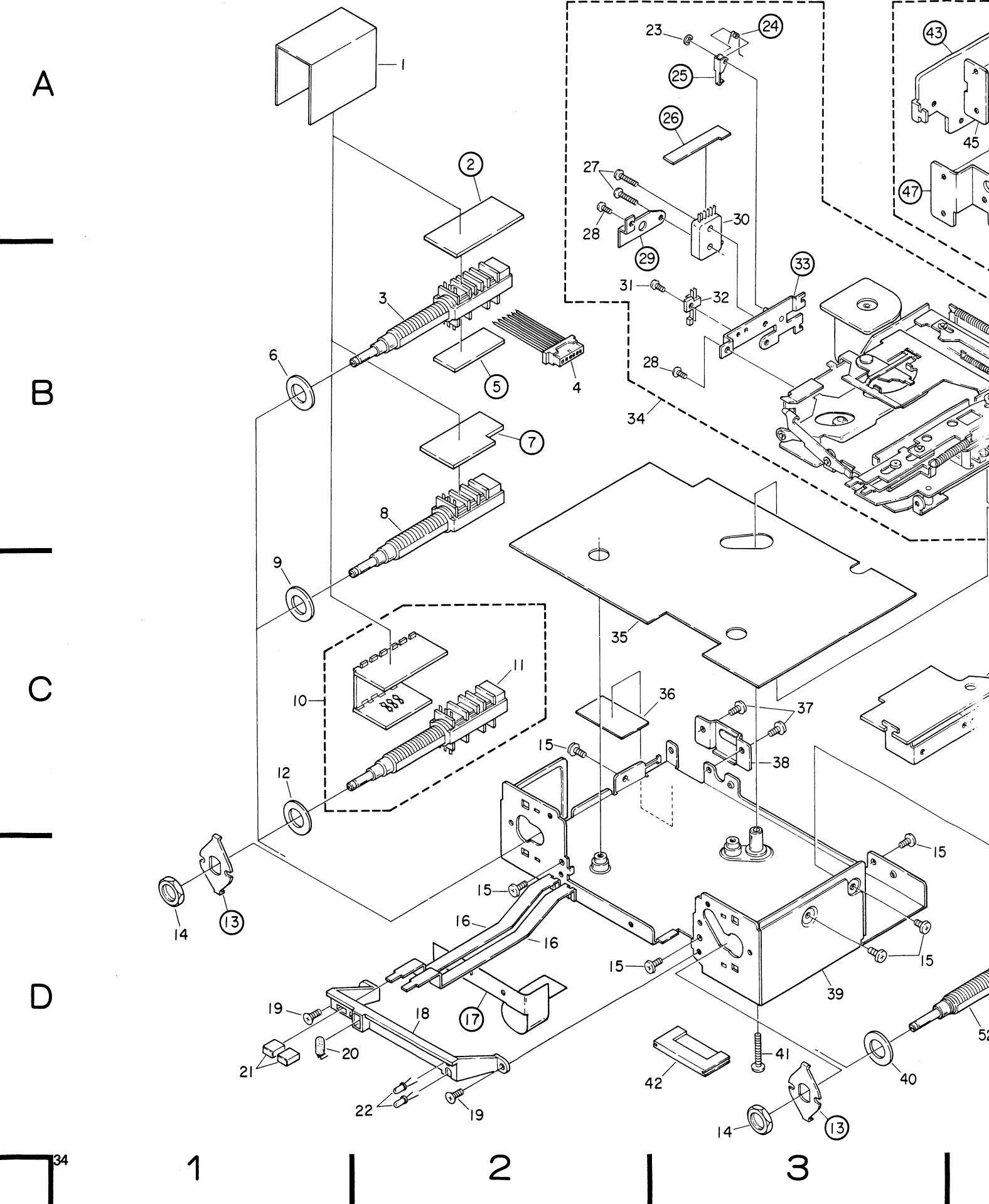


Fig. 18

## • Parts List

| Mark    | No.                   | Part No.               | Description | Mark    | No.                      | Part No.  | Description |
|---------|-----------------------|------------------------|-------------|---------|--------------------------|---|-------------|
| 1.      | BMZ26P050FMC          | Screw                  |             | 10.     | CND-646                  | Washer, 10 $\phi$ x 1t                                  |             |
| 2.      | CXC-353               | Case Unit              |             | 11.     | CBN-028                  | Nut, 10 $\phi$ x 2t                                     |             |
| 3.      | CXC-363               | Grille Unit (UKP-5200) |             | ★ 12.   | CAA-421                  | Knob (Fader) (UKP-5210)                                 |             |
| 4.      | CAT-113               | Door (UKP-5200)        |             | ★ 13.   | CAA-321                  | Knob (Bass) (UKP-5600)                                  |             |
| CAT-112 | Door (UKP-5210)       |                        | ★ 14.       | CAA-420 | Knob (Tone) (UKP-5210)   |   |             |
| CAT-111 | Door (UKP-5600)       |                        | ★ 15.       | CAA-319 | Knob (Treble) (UKP-5600) |   |             |
| 5.      | CBH-657               | Spring                 |             | ★ 16.   | CAA-353                  | Knob (Mono/Stereo) (UKP-5200)                           |             |
| 6.      | CAC-368               | Button (FF, REW)       |             | ★ 17.   | CAA-419                  | Knob (Mono/Stereo) (UKP-5210)                           |             |
| 7.      | CMZ26P060FMC          | Screw                  |             | ★ 18.   | CAA-320                  | Knob (Mono/Auto) (UKP-5600)                             |             |
| 8.      | CNV-769               | Washer                 |             | ★ 19.   | CAA-418                  | Knob (Volume/Balance/Tuner Power, Tun) (UKP-5210)       |             |
| 9.      | CEA-497               | Panel Assy (UKP-5200)  |             | ★ 20.   | CAA-318                  | Knob (Volume/Balance/Tuner Power, Tun) (UKP-5200, 5600) |             |
| CEA-495 | Panel Assy (UKP-5210) |                        | ★ 21.       | CAA-353 | Knob (Tone) (UKP-5200)   |   |             |
| CEA-494 | Panel Assy (UKP-5600) |                        | 22.         |         |                          |   |             |

## 10. CHASSIS EXPLODED VIEW



1

2

3

4

5

6

## 10. CHASSIS EXPLODED VIEW

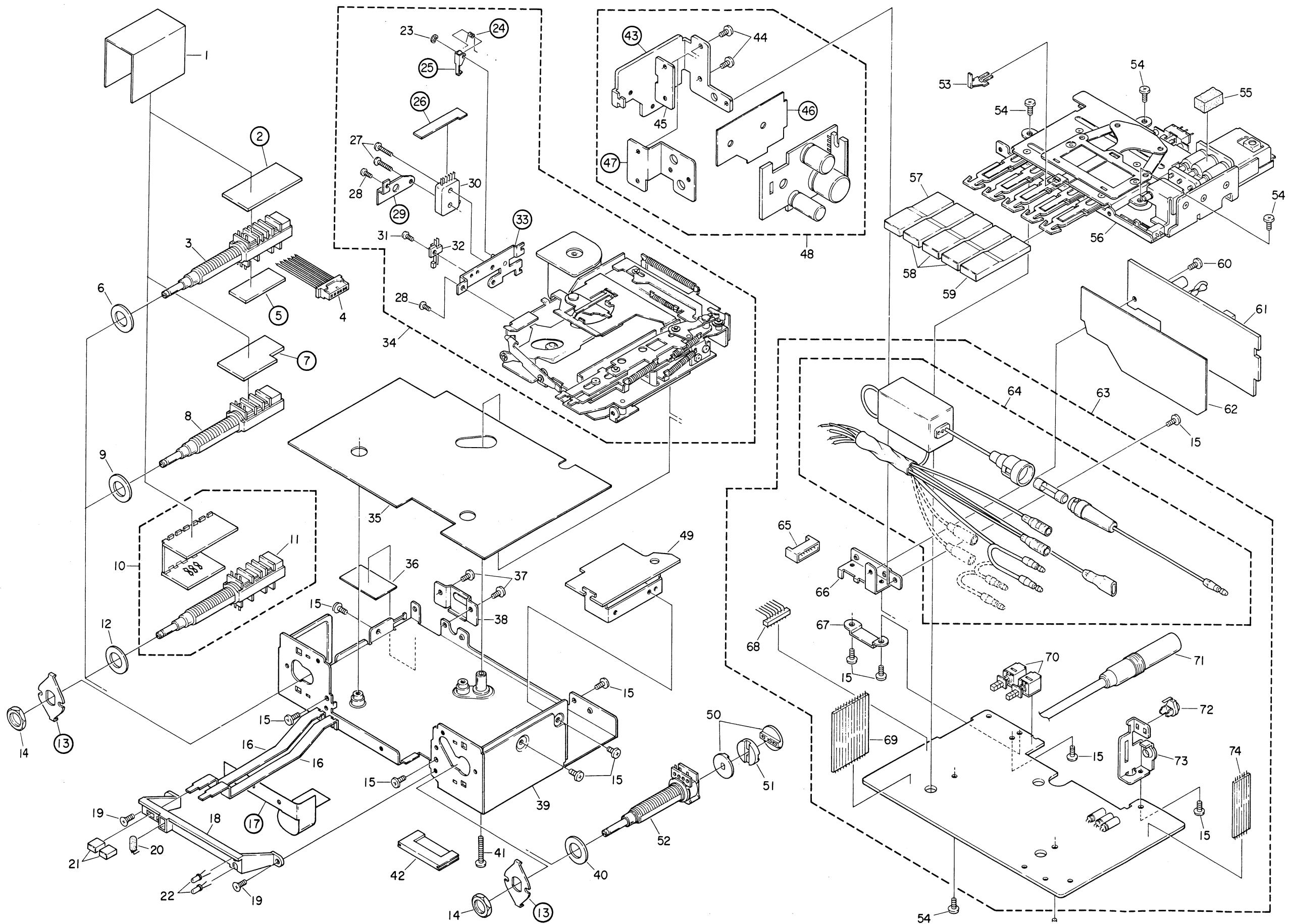


Fig. 19

- **Parts List**

**NOTE:**

- For your Parts Stock Control, the fast moving items are indicated with the marks

★ ★ and ★.

★ ★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.

| Mark | No. | Part No.     | Description  | Mark | No. | Part No.           | Description                           |
|------|-----|--------------|--|------|-----|--------------------|---------------------------------------|
|      | 1.  | CNM-697      | Insulator  |      | 42. | CNW-270            | Cover                                 |
|      | 2.  |              | P.C. Board (UKP-5210)  |      | 43. |                    | Heat Sink                             |
| ★ ★  | 3.  | CCS-264      | Volume/Switch (UKP-5210)   |      | 44. | BMZ30P080FMC       | Screw                                 |
|      |     |              | Volume, 40Ω × 2, 20 kΩ(B) × 2, 50 kΩ(W)  |      | 45. | CNF-143            | Holder (UKP-5200, 5600)               |
|      |     |              | (Fader, Tone, Balance, Volume/Tuner Power)   |      | 46. |                    | Insulator                             |
|      | 4.  | CDE-892      | Connector (UKP-5210)   |      | 47. |                    | Heat Sink                             |
|      | 5.  |              | P.C. Board (UKP-5210)  |      | 48. | CWH-142 or CWH-143 | Main Amp Assy (UKP-5200)              |
|      | 6.  | CND-646      | Washer, 10φ × 1t (UKP-5210)  |      |     | CWH-140 or CWH-141 | Main Amp Assy (UKP-5210)              |
|      | 7.  |              | P.C. Board (UKP-5200)  |      |     |                    |                                       |
| ★ ★  | 8.  | CCS-277      | Volume/Switch (UKP-5200)   |      |     | CWH-138 or CWH-137 | Main Amp Assy (UKP-5600)              |
|      |     |              | Volume, 20 kΩ(B) × 2, 50 kΩ(W)   |      | 49. | CWK-247            | MS Pre Amp Assy                       |
|      |     |              | (Tone, Balance, Volume/Tuner Power)  |      | 50. | CNW-100            | Coupler A                             |
|      | 9.  | CND-646      | Washer, 10φ × 1t (UKP-5200)  |      | 51. | CNW-101            | Coupler B                             |
|      | 10. | CWG-101      | Bass Treble Unit (UKP-5600)  | ★ ★  | 52. | CSD-019            | Switch (Mono/Stereo) (UKP-5200, 5210) |
| ★ ★  | 11. | CCS-263      | Volume/Switch (UKP-5600)   |      |     |                    | (Mono/Auto) (UKP-5600)                |
|      |     |              | Volume, 25 kΩ(B) × 2, 50 kΩ(W), 20 kΩ(B) (Bass, Treble, Balance, Volume/Tuner Power) |      | 53. | CAF-061            | Pointer                               |
|      | 12. | CND-646      | Washer, 10φ × 1t (UKP-5600)  |      | 54. | BMZ30P050FMC       | Screw                                 |
|      | 13. |              | Guide  |      | 55. | CNM-727            | Cushion                               |
|      | 14. | CBN-028      | Nut, 10φ × 2t  | ★    | 57. | CAC-360            | Preset Mechanism (UKP-5200, 5210)     |
|      | 15. | BMZ26P050FMC | Screw  | ★    | 58. | CAC-355            | Button (Preset) (UKP-5200, 5210)      |
|      | 16. | CNF-140      | Lever  | ★    | 59. | CAC-362            | Button (Preset) (UKP-5600)            |
|      | 17. |              | P.C. Board   | ★    | 60. | CAC-357            | Button (Preset) (UKP-5200, 5210)      |
|      | 18. | CNW-274      | Back Plate   | ★    | 61. | CAC-361            | Button (Preset) (UKP-5600)            |
|      | 19. | CMZ26P050FMC | Screw  | ★    | 62. | CAC-356            | Button (Preset) (UKP-5200, 5210)      |
| ★ ★  | 20. | CEL-089      | Lamp, 40 mA 16V  |      | 63. | BMZ26P030FMC       | Screw                                 |
| ★    | 21. | CAC-353      | Button (MS, Loud)  |      | 64. | CWE-433            | Tuner Unit (UKP-5200, 5210)           |
| ★    | 22. | AR3432S      | LED (Red)  |      | 65. | CWE-432            | Tuner Unit (UKP-5600)                 |
|      | 23. | YE12FUC      | Washer   |      | 66. | CNM-696            | Insulator                             |
|      | 24. |              | Spring   |      | 67. | CWX-378            | P.C. Board Unit (UKP-5200)            |
|      | 25. |              | Arm  |      | 68. | CWX-377            | P.C. Board Unit (UKP-5210)            |
|      | 26. |              | P.C. Board   |      | 69. | CWX-375            | P.C. Board Unit (UKP-5600)            |
|      | 27. | CBA-106      | Screw  | ★    | 70. | CDE-886            | Cord Assy (UKP-5200)                  |
|      | 28. | BMZ23P025FMC | Screw  | ★    | 71. | CDE-884            | Cord Assy (UKP-5210)                  |
|      | 29. |              | Cover  | ★    | 72. | CDE-885            | Cord Assy (UKP-5600)                  |
| ★ ★  | 30. | CSF-014      | Switch (Tuner/Tape)  |      | 73. | CKS-180            | Plug (UKP-5210)                       |
|      | 31. | BMZ20P040FMC | Screw  |      | 74. | CNF-137            | Holder                                |
| ★ ★  | 32. | CSN-071      | Switch (Key OFF)   |      | 75. | CNF-136            | Clamper                               |
|      | 33. |              | Bracket Unit   |      | 76. | CKS-179            | Plug                                  |
|      | 34. | CXC-333      | Cassette Mechanism Assy  |      | 77. | CDE-889            | Connector (UKP-5200, 5210)            |
|      | 35. | CNM-693      | Insulator  |      | 78. | CDE-888            | Connector (UKP-5600)                  |
|      | 36. | CAL-684      | Name Plate (UKP-5200)  | ★ ★  | 79. | CSG-100            | Switch (MS, Loud)                     |
|      |     | CAL-683      | Name Plate (UKP-5210)  |      | 80. | CDH-062            | Antenna Cable                         |
|      |     | CAL-682      | Name Plate (UKP-5600)  |      | 81. | CCG-022            | Trimmer                               |
|      | 37. | BMZ30P060FMC | Screw  |      | 82. | CNE-167            | Holder                                |
|      | 38. | CNF-135      | Clamper  |      | 83. | CDE-887            | Connector                             |
|      | 39. | CNA-181      | Frame  |      |     |                    |                                       |
|      | 40. | CND-646      | Washer, 10φ × 1t   |      |     |                    |                                       |
|      | 41. | BMZ26P150FMC | Screw  |      |     |                    |                                       |

## 11. CASSETTE MECHANISM EXPLODED VIEW

### • Parts List

| Mark | No. | Part No.              | Description  | Mark | No.          | Part No.         | Description          |
|------|-----|-----------------------|--------------|------|--------------|------------------|----------------------|
| ★ ★  | 1.  | CXM-081               | Motor        | ★ ★  | 50.          | CSN-070          | Switch (FF/REW Mute) |
|      | 2.  | CBH-665               | Spring       |      | 51.          |                  | P.C. Board           |
|      | 3.  | YE20FUC               | Washer       |      | 52.          | PMZ20P040FMC     | Screw                |
|      | 4.  | CBH-626               | Spring       |      | 53.          | CBH-648          | Spring               |
|      | 5.  | CNE-971               | Arm          |      | 54.          | CXC-296          | Arm Unit             |
|      | 6.  | CBH-627               | Spring       | ★    | 55.          | CXP-033          | Solenoid             |
|      | 7.  | CBH-625               | Spring       | ★    | 56.          | CXP-032          | Solenoid             |
|      | 8.  | CNE-972               | Arm          |      | 57.          |                  | Lever Unit           |
|      | 9.  | BMZ23P030FMC          | Screw        |      | 58.          |                  | Lever                |
|      | 10. |                       | Frame Unit   |      | 59.          | CBH-645          | Spring               |
| ★ ★  | 11. | CNT-096               | Belt         | 60.  | CBH-634      | Spring           |                      |
|      | 12. | CNW-205               | Pulley       | 61.  | CXC-301      | Holder Unit      |                      |
|      | 13. |                       | Holder       | 62.  |              | Lever Unit       |                      |
|      | 14. | CBF-134               | Washer       | 63.  | CBH-655      | Spring           |                      |
|      | 15. | YE15FUC               | Washer       | 64.  |              | Lever            |                      |
|      | 16. | CXC-302               | Holder Unit  | 65.  |              | Arm              |                      |
|      | 17. | CBH-640               | Spring       | 66.  | CBH-641      | Spring           |                      |
|      | 18. | YE25FUC               | Washer       | 67.  | CNW-253      | Arm              |                      |
|      | 19. |                       | Lever        | 68.  | BMZ26P160FMC | Screw            |                      |
|      | 20. | BMZ20P040FMC          | Screw        | 69.  |              | Lever            |                      |
|      | 21. | CXC-328               | Gear Unit    | 70.  | CXC-292      | Arm Unit         |                      |
|      | 22. |                       | Gear         | 71.  | CMZ26P040FMC | Screw            |                      |
|      | 23. |                       | Spacer       | 72.  | CBH-642      | Spring           |                      |
|      | 24. | CBH-638               | Spring       | 73.  | CBH-643      | Spring           |                      |
| ★ ★  | 25. | CXC-289               | Roller Unit  | 74.  | BMZ20P025FMC | Screw            |                      |
|      | 26. |                       | Roller       | 75.  | CBH-646      | Spring           |                      |
|      | 27. | PMS26P030FMC          | Screw        | 76.  | CBH-647      | Lever            |                      |
|      | 28. | CNW-210               | Gear         | 77.  | CBH-649      | Spring           |                      |
|      | 29. |                       | Chassis Unit | 78.  | BMZ26P100FMC | Screw            |                      |
|      | 30. | CBH-635               | Spring       | 79.  |              | Lever            |                      |
|      | 31. | CBH-636               | Spring       | 80.  |              | Lever            |                      |
|      | 32. | CNW-211               | Gear         | 81.  | CXC-297      | Arm Unit         |                      |
|      | 33. | CNW-212               | Gear         | 82.  | CBH-647      | Spring           |                      |
|      | 34. | CNW-216               | Gear         | 83.  | CBH-637      | Spring           |                      |
|      | 35. | CBF-045               | Washer       | 84.  | CXC-291      | Sub Chassis Unit |                      |
| ★ ★  | 36. | CXC-256               | Reel Unit    | 85.  | CXC-254      | Gear Unit        |                      |
| ★ ★  | 37. | CXC-257               | Reel Unit    | 86.  |              | Bracket          |                      |
|      | 38. | CNR-148               | Flywheel     | 87.  | PMS20P040FMC | Screw            |                      |
| ★ ★  | 39. | CNT-095               | Belt         |      |              |                  |                      |
|      | 40. | CXC-290               | Holder Unit  |      |              |                  |                      |
|      | 41. | CMZ23P030FMC          | Screw        |      |              |                  |                      |
|      | 42. | CNW-229               | Screw        |      |              |                  |                      |
|      | 43. | CNW-250               | Arm          |      |              |                  |                      |
|      | 44. | CBA-082               | Screw        |      |              |                  |                      |
| ★ ★  | 45. | CPB-064 or<br>CPB-065 | Head         |      |              |                  |                      |
|      | 46. | CNV-301               | Rubber       |      |              |                  |                      |
|      | 47. | CBH-198               | Spring       |      |              |                  |                      |
|      | 48. | CNL-010 or<br>CNL-011 | P.C. Board   |      |              |                  |                      |
|      | 49. |                       | Plug         |      |              |                  |                      |

- **Cassette Mechanism**

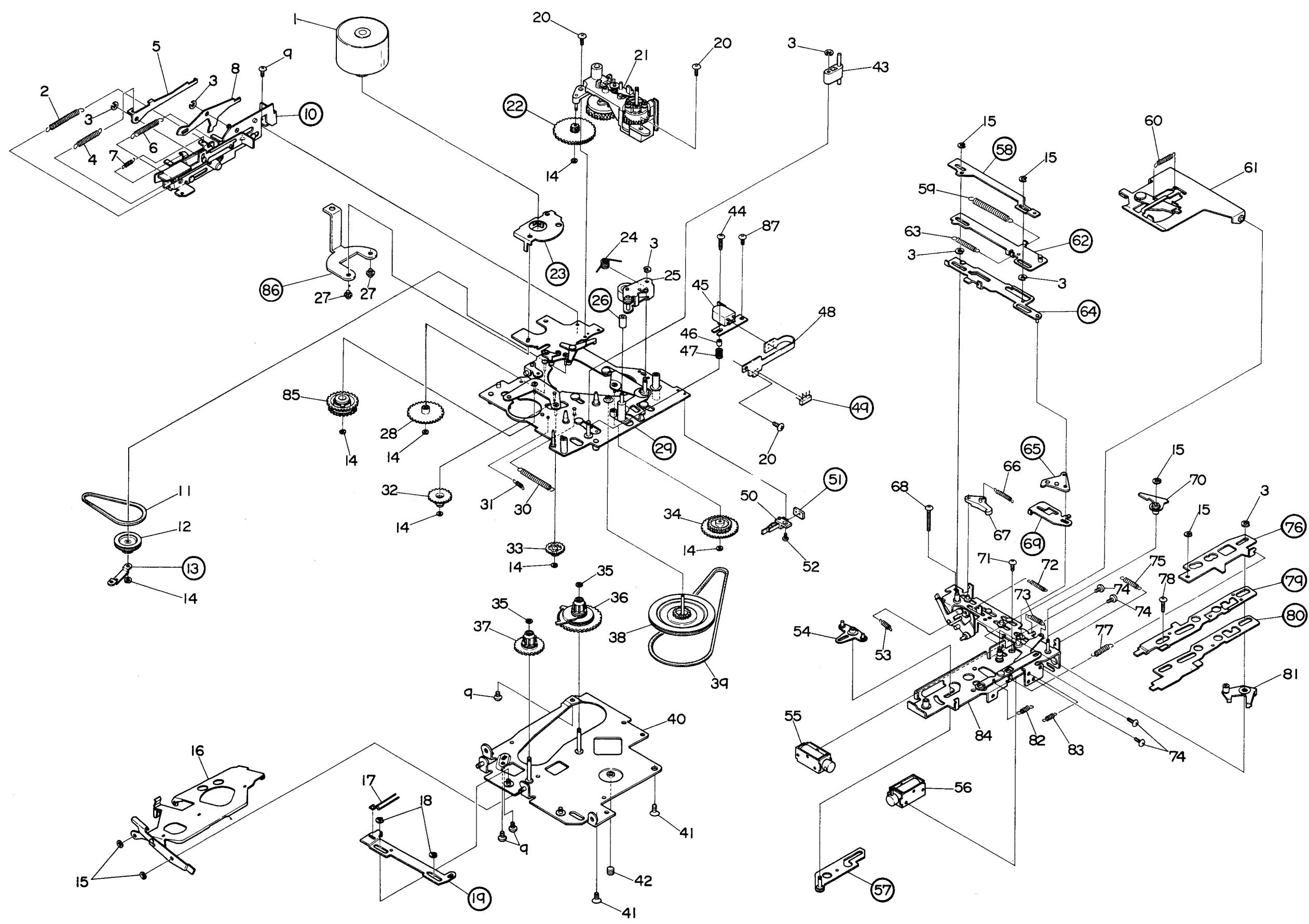


Fig. 20

## 12. ELECTRICAL PARTS LIST

### NOTE:

When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω  $56 \times 10^1$  561 ..... RD1/4PS 5 6 1 J  
47kΩ  $47 \times 10^3$  473 ..... RD1/4PS 4 7 3 J  
0.5Ω 0R5 ..... RN2H 0 R 5 K  
1Ω 010 ..... RS1P 0 1 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).  
5.62kΩ  $5.62 \times 10^3$  ..... RN1/4SR 5 6 2 1 F

- For your Parts Stock Control, the fast moving items are indicated with the marks

★★ and ★.  
★★: GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.

### Tuner Unit (CWE-433) (UKP-5200, UKP-5210)

#### MISCELLANEOUS

| Mark                          | Part No.                            | Symbol & Description  |
|-------------------------------|-------------------------------------|-----------------------|
| ★★                            | μPC1200V                            | IC1                   |
| ★★                            | μPC1187V                            | IC2                   |
| ★★                            | LA1130                              | IC3                   |
| ★★                            | 2SC1675                             | Q1                    |
| ★★                            | 2SD468                              | Q2                    |
| ★                             | WZ-094                              | D1                    |
| ★                             | 1S1555 or 1S2473 or 1S2076 or DS442 | D2                    |
| CTC-090                       | L1                                  | Coil                  |
| CTC-091                       | L2                                  | Coil                  |
| CTF-078 or CTF-099 or CTF-016 | L3, L4                              | Ferri-Inductor, 15 μH |
| CTF-005                       | L5                                  | Ferri-Inductor, 5 μH  |
| CTB-109                       | L6                                  | Coil                  |
| CTE-118                       | T1                                  | IF Transformer        |
| CTE-117                       | T2                                  | IF Transformer        |
| CCG-062                       | TC1, TC2                            | Trimmer               |
| CTF-040                       | CF1, CF2                            | Ceramic Filter        |
| CTF-118                       | CF3                                 | Ceramic Filter        |
| ★★ C92-618                    | VR1                                 | Semi-fixed, 4.7 kΩ(B) |
| ★★ CCP-091                    | VR2                                 | Semi-fixed, 470Ω(B)   |

#### RESISTORS

| Mark | Part No.    | Symbol & Description                                      |
|------|-------------|---|
|      | RS1/8S□□□J  | R1—R10, R12—R19, R23, R25—R27, R29—R33<br>(Chip Resistor) |
|      | RD1/4PM□□□J | R11, R12, R28   |
|      | RD1/4VM□□□J | R20—R22, R24  |

#### CAPACITORS

| Mark | Part No.      | Symbol & Description  |
|------|---------------|---|
|      | CKSYF473Z50   | C1, C2, C4—C7, C10, C11, C26, C29, C34, C45<br>(Chip Capacitor) |
|      | CKSYB103K50   | C3, C28 (Chip Capacitor)  |
|      | CEA010M50L    | C8, C12   |
|      | CCSSL101K50   | C9 (Chip Capacitor)   |
|      | CEA2R2M50L    | C13   |
|      | CEA100M16L    | C14, C15  |
|      | CSYAR22M25SAN | C16, C18  |
|      | CSYAR47M25SAN | C17   |
|      | CQSH471J50    | C19   |
|      | CQMA183J50    | C20, C21  |
|      | CQMA222J50    | C22, C23  |
|      | CEA101M10L    | C24, C25  |
|      | CKSYB272K50   | C27 (Chip Capacitor)  |
|      | CCSSH201J50   | C30 (Chip Capacitor)  |
|      | CCSPH101J50   | C31 (Chip Capacitor)  |
|      | CKSYB222K50   | C32, C37 (Chip Capacitor)                                       |
|      | CEA470M16L    | C33, C36  |
|      | CCSSL470K50   | C35 (Chip Capacitor)  |

| Mark | Part No.    | Symbol & Description |
|------|-------------|----------------------|
|      | CQMA103J50  | C38, C40, C46        |
|      | CKSYB153K50 | C39 (Chip Capacitor) |
|      | CEAR15M50LL | C41                  |
|      | CEA220M25L  | C42                  |
|      | CEAR47M50NP | C43                  |
|      | CEA4R7M35L  | C44                  |

### Bass Treble Unit (CWG-101) (UKP-5600)

| Mark | Part No.              | Symbol & Description   |
|------|-----------------------|--|
| ★★   | NJM4558DD or μPC4558C | IC1  |
| ★★   | CCS-263               | VR1/S1 Volume/Switch Volume, 25 kΩ(B) × 2, 50 kΩ(W), 20 kΩ(B)<br>(Bass, Treble, Volume, Balance/Tuner Power) |
|      | RD1/4VM□□□J           | R1, R3, R15  |
|      | RD1/4PM□□□J           | R2, R4, R8, R10  |
|      | RD1/6PS□□□J           | R5—R7, R9, R11—R14   |
|      | CQMA682K50L           | C1, C2   |
|      | CQMA473K50L           | C3, C4   |

| Mark | Part No.     | Symbol & Description |
|------|--------------|----------------------|
|      | CKDYB330K50L | C5, C6               |
|      | CEA100M16LL  | C7, C8               |
|      | CEA220M10L   | C9                   |
|      | CEA470M10L   | C10                  |

### Tuner Unit (CWE-432) (UKP-5600)

#### MISCELLANEOUS

| Mark                          | Part No.                            | Symbol & Description  |
|-------------------------------|-------------------------------------|-----------------------|
| ★★                            | M5215L                              | IC1, IC2              |
| ★★                            | PA4007                              | IC3                   |
| ★★                            | LA2101                              | IC4                   |
| ★★                            | LA3370P                             | IC5                   |
| ★★                            | LA1130                              | IC6                   |
| ★★                            | 2SD468                              | Q1                    |
| ★                             | MV-104V                             | D1                    |
| ★                             | 1S1555 or 1S2076 or 1S2473 or DS442 | D2, D5, D6            |
|                               | XZ-094                              | D3                    |
| ★                             | 1SS84                               | D4                    |
| CTF-078 or CTF-099 or CTF-016 | L1, L2                              | Ferri-Inductor, 15 μH |
|                               | CTF-016                             |                       |
|                               | CTB-109                             | L3                    |
|                               | CTF-005                             | L4                    |
|                               | CTC-137                             | T1                    |
|                               | CTE-118                             | T2                    |
|                               | CTE-117                             | IF Transformer        |
|                               | CCG-041                             | IF Transformer        |
|                               | CTF-040                             | Trimmer               |
|                               | CF1—CF3                             | Ceramic Filter        |
|                               | CTF-118                             | Ceramic Filter        |
| ★★                            | CCP-153                             | Semi-fixed, 220 kΩ(B) |

| Mark | Part No. | Symbol & Description          |
|------|----------|-------------------------------|
| ★★   | CCP-145  | VR2, VR3 Semi-fixed, 10 kΩ(B) |
| ★★   | CCP-144  | VR4 Semi-fixed, 6.8 kΩ(B)     |

#### RESISTORS

| Mark | Part No.    | Symbol & Description   |
|------|-------------|--|
|      | RS1/8S□□□J  | R1—R3, R5, R6, R8—R11, R18, R20, R21—R27, R29, R30, R32—R36, R39, R40, R43—R46, R49—R52, R55—R58 (Chip Resistor) |
|      | RD1/4VM□□□J | R4, R7, R13, R15—R17, R19, R28, R31, R37, R38, R42, R47, R48, R53  |
|      | RD1/4PM□□□J | R12, R14, R21, R41, R54  |

#### CAPACITORS

| Mark | Part No.     | Symbol & Description                                     |
|------|--------------|--|
|      | CKDBC473M25  | C1, C4   |
|      | CKSYF473Z50  | C2, C5—C8, C12, C16, C41, C50, C53, C58 (Chip Capacitor) |
|      | CKSYB103K50  | C3, C51, C63 (Chip Capacitor)                            |
|      | CKSYB102K50  | C9, C14, (Chip Capacitor)                                |
|      | CEA100M50LL  | C10, C17, C43  |
|      | CKSYB222K50  | C11, C56, C61 (Chip Capacitor)                           |
|      | CEA100M16LL  | C13, C15, C44  |
|      | CEA3R3M50LL  | C18  |
|      | CCSSL101K50  | C19 (Chip Capacitor)                                     |
|      | CEA100M16NP  | C20  |
|      | CEA101M10L   | C21, C22   |
|      | CKDSA271J50  | C23—C25, C27   |
|      | CCDSL050D50L | C26  |
|      | CQMA103J50L  | C28, C62, C65  |
|      | CEA470M10L   | C29  |
|      | CQMA152J50L  | C30  |
|      | CKDSA681J50  | C31, C32   |
|      | CQMA122J50L  | C33  |
|      | CKDSA680J50  | C34  |
|      | CQMA682J50L  | C35  |
|      | CKDSA102J50  | C36  |
|      | CKDSA561J50  | C37, C38   |
|      | CEA4R7M16NP  | C39  |
|      | CEA2R2M50LL  | C40, C42   |
|      | CQMA223J50L  | C45, C47, C48  |
|      | CQSAH102J50  | C46  |
|      | CEAR22M50LL  | C49  |
|      | CKSYB272K50  | C52 (Chip Capacitor)                                     |
|      | CCSSH201J50  | C54 (Chip Capacitor)                                     |
|      | CCSCH121J50  | C55 (Chip Capacitor)                                     |
|      | CEA470M16L   | C57, C60   |
|      |              |  |

**MS Pre Amp Assy (CWK-247)****MISCELLANEOUS**

| Mark | Part No.                                      | Symbol & Description |
|------|---|----------------------|
| ★ ★  | MB3106M                                       | IC1                  |
| ★ ★  | BA338   | IC2                  |
| ★    | WZ-090 or<br>RD9.1EB1 or<br>HZ9B1 or          | D1                   |
|      | GZA8.2U                                       |                      |
| ★    | 1S1555 or<br>1S2076 or<br>1S2473 or<br>US1040 | D2                   |

**RESISTORS**

| Mark | Part No.    | Symbol & Description   |
|------|-------------|------------------------|
|      | RS1/8S□□□J  | R1—R16 (Chip Resistor) |
|      | RD1/4VM□□□J | R19                    |

**CAPACITORS**

| Mark | Part No.     | Symbol & Description     |
|------|--------------|--------------------------|
|      | CKSYB821K50  | C1, C2 (Chip Capacitor)  |
|      | CEANL100M16L | C3, C4                   |
|      | CEA470M10L   | C5, C6                   |
|      | CKSYB123K50  | C7, C8 (Chip Capacitor)  |
|      | CKSYB103K50  | C9, C10 (Chip Capacitor) |
|      | VACANT       | C11—C14                  |
|      | CEA101M16L   | C15                      |
|      | CKSYB392K50  | C16 (Chip Capacitor)     |
|      | CEA010M50L   | C17, C18, C21            |
|      | CEA2R2M35L   | C19                      |
|      | CEA4R7M35L   | C20                      |
|      | CEA470M16L   | C22                      |

**Main Amp Assy (CWH-142) (UKP-5200)**

| Mark | Part No.     | Symbol & Description |
|------|--------------|----------------------|
| ★ ★  | MB3722       | IC1                  |
|      | RD1/4PM□□□J  | R1                   |
|      | RD1/4VM□□□J  | R2—R5                |
|      | CEA101M10L   | C1, C2               |
|      | CKDYB102K50L | C3, C4               |
|      | CEA470M10L   | C5, C6               |
|      | CQMA104K50L  | C7                   |
|      | CQFAH104J50  | C8                   |
|      | CCH-046      | 1000 $\mu$ F/10V     |
|      | CCH-057      | 1000 $\mu$ F/10V     |
|      | CCH-058      | 2200 $\mu$ F/16V     |
|      | CEA330M16L   | C11                  |
|      | CEA330M16L   | C12                  |

**Main Amp Assy (CWH-143) (UKP-5200)**

| Mark | Part No.       | Symbol & Description |
|------|----------------|----------------------|
| ★ ★  | $\mu$ PC1185H2 | IC1                  |
| ★ ★  | 2SC2458        | Q1, Q2               |
|      | RD1/4PM□□□J    | R1, R2, R5, R6       |
|      | RD1/4VM□□□J    | R3, R4, R7—R9        |
|      | CEA101M10L     | C1, C2               |
|      | CKDYB102K50L   | C3, C4               |
|      | CEA470M10L     | C5, C6, C12          |
|      | CQMA104K50L    | C7                   |
|      | CQFAH104J50    | C8                   |
|      | CCH-057        | 1000 $\mu$ F/10V     |
|      | CCH-046        | 1000 $\mu$ F/10V     |
|      | CCH-058        | 2200 $\mu$ F/16V     |
|      | CEA100M16LL    | C13                  |

**Main Amp Assy (CWH-140) (UKP-5210)**

| Mark | Part No.     | Symbol & Description |
|------|--------------|----------------------|
| ★ ★  | MB3722       | IC1                  |
|      | RD1/4PM□□□J  | R1                   |
|      | RD1/4VM□□□J  | R2—R5                |
|      | CEA101M10L   | C1, C2               |
|      | CKDYB102K50L | C3, C4               |
|      | CEA470M10L   | C5, C6               |
|      | CQMA104K50L  | C7                   |
|      | CQFAH104J50  | C8                   |
|      | CCH-046      | 1000 $\mu$ F/10V     |
|      | CCH-057      | 1000 $\mu$ F/10V     |
|      | CCH-058      | 2200 $\mu$ F/16V     |
|      | CEA330M16L   | C11                  |
|      | CEA330M16L   | C12                  |

**Main Amp Assy (CWH-141) (UKP-5210)**

| Mark | Part No.       | Symbol & Description |
|------|----------------|----------------------|
| ★ ★  | $\mu$ PC1185H2 | IC1                  |
| ★ ★  | 2SC2458        | Q1, Q2               |
|      | RD1/4PM□□□J    | R1, R2, R5, R6       |
|      | RD1/4VM□□□J    | R3, R4, R7—R9        |
|      | CEA101M10L     | C1, C2               |
|      | CKDYB102K50L   | C3, C4               |
|      | CEA470M10L     | C5, C6, C12          |
|      | CQMA104K50L    | C7                   |
|      | CQFAH104J50    | C8                   |
|      | CCH-057        | 1000 $\mu$ F/10V     |
|      | CCH-046        | 1000 $\mu$ F/10V     |
|      | CCH-058        | 2200 $\mu$ F/16V     |
|      | CEA100M16LL    | C13                  |

## Main Amp Assy (CWH-138) (UKP-5600)

| Mark | Part No.    | Symbol & Description |
|------|-------------|----------------------|
| ★ ★  | MB3722      | IC1                  |
|      | RD1/4PM□□□J | R1                   |
|      | RD1/4VM□□□J | R2—R5                |
|      | CEA101M10L  | C1, C2               |
|      | CQMA332K50  | C3, C4               |
|      | CEA470M10L  | C5, C6               |
|      | CQMA104K50L | C7                   |
|      | CQFAH104J50 | C8                   |
|      | CCH-046     | C9 1000 $\mu$ F/16V  |
|      | CCH-057     | C10 1000 $\mu$ F/10V |
|      | CCH-058     | C11 2200 $\mu$ F/16V |
|      | CEA330M16L  | C12                  |

## Main Amp Assy (CWH-137) (UKP-5600)

| Mark | Part No.       | Symbol & Description |
|------|----------------|----------------------|
| ★ ★  | $\mu$ PC1185H2 | IC1                  |
| ★ ★  | 2SC2458        | Q1, Q2               |
|      | RD1/4PM□□□J    | R1, R2, R5, R6       |
|      | RD1/4VM□□□J    | R3, R4, R7—R9        |
|      | CEA101M10L     | C1, C2               |
|      | CQMA332K50     | C3, C4               |
|      | CEA470M10L     | C5, C6, C12          |
|      | CQMA104K50L    | C7                   |
|      | CQFAH104J50    | C8                   |
|      | CCH-057        | C9 1000 $\mu$ F/10V  |
|      | CCH-046        | C10 1000 $\mu$ F/10V |
|      | CCH-058        | C11 2200 $\mu$ F/16V |
|      | CEA100M16LL    | C13                  |

P.C. Board Unit (CWX-378) (UKP-5200)  
(CWX-377) (UKP-5210)

## MISCELLANEOUS

| Mark | Part No.  | Symbol & Description     |
|------|---|--------------------------|
| ★ ★  | 2SA1162-SO or<br>2SA1162-SY or<br>2SA1162-SG or<br>2SA1179-M5 or<br>2SA1179-M6 or | Q1 (Chip Transistor)     |
|      | 2SA1179-M7 or<br>2SB709-AQ or<br>2SB709-AR or                                     |                          |
| ★    | 2SB709-AS<br>2SC2712-LO or  | Q2, Q3 (Chip Transistor) |
|      | 2SC2712-LY or<br>2SC2712-LG or<br>2SC2712-LL or<br>2SC2812-L5 or<br>2SC2812-L6 or |                          |

| Mark | Part No.   | Symbol & Description                                      |                                      |
|------|--|---|--------------------------------------|
|      | 2SC2812-L7 or<br>2SD601-YQ or<br>2SD601-YR or<br>2SD601-YS |   |                                      |
| ★ ★  | 2SB825   | Q4  |                                      |
| ★    | 1S2473 or<br>DS442 or<br>1S1555 or<br>1S2076 or<br>US1040  | D1, D2, D5, D6  |                                      |
| ★    | MA151WA-MN<br>MA151WK-MT                                   | *D3, D4 (Chip Diode)<br>*D7, D8, D11, D12<br>(Chip Diode) |                                      |
| ★    | SIB01-01 or<br>SIB01-02 or                                 | D9  |                                      |
|      | 1S1886 or<br>DS135   |   |                                      |
| ★    | MA151K-MH  | D10 (Chip Diode)  |                                      |
| ★    | WZ-090 or<br>RD9.1EB1 or                                   | D13   |                                      |
|      | HZ9B1 or<br>GZA8.2U<br>CTH-025<br>CCG-022                  | L1<br>TC1<br>S1, S2                                       | Coil<br>Trimmer<br>Switch (MS, Loud) |
| ★ ★  | CSG-100  |   |                                      |

## Caution:

\*D3 and D4 are in one chip diode.  
\*D7 and D8, D11 and D12 are paired and are in one diode.

## RESISTORS

| Mark | Part No.   | Symbol & Description    |
|------|------------|-------------------------|
|      | RS1/8S□□□J | R1—R21 (Chip Resistor)  |
|      | RS1/8S□□□K | R22—R34 (Chip Resistor) |

## CAPACITORS

| Mark | Part No.      | Symbol & Description    |
|------|---------------|-------------------------|
|      | CEA010M50L    | C1, C2                  |
|      | CKSYB152K50   | C3, C4 (Chip Capacitor) |
|      | CSYAR33M16SAN | C5, C6                  |
|      | CEA3R3M50L    | C7                      |
|      | CEA100M16L    | C8                      |
|      | CKSYF223Z50   | C9 (Chip Capacitor)     |
|      | VACANT        | C10                     |
|      | CEA100M50L    | C11                     |

**P.C. Board Unit (CWX-375) (UKP-5600)****MISCELLANEOUS**

| Mark | Part No.  | Symbol & Description     |
|------|---|--------------------------|
| ★ ★  | 2SC2712-LL or<br>2SC2812-L7 or<br>2SD601-YS   | Q1, Q2 (Chip Transistor) |
| ★ ★  | 2SA1162-SO or<br>2SA1162-SY or<br><br>2SA1162-SG or<br>2SA1179-M4 or<br>2SA1179-M5 or<br>2SA1179-M6 or<br>2SA1179-M7 or<br><br>2SB709-AQ or<br>2SB709-AR or<br>2SB709-AS                  | Q3 (Chip Transistor)     |
| ★ ★  | 2SC2712-LO or<br>2SC2712-LY or<br><br>2SC2712-LG or<br>2SC2712-LL or<br>2SC2812-L4 or<br>2SC2812-L5 or<br>2SC2812-L6 or<br><br>2SC2812-L7 or<br>2SD601-YQ or<br>2SD601-YR or<br>2SD601-YS | Q4, Q5 (Chip Transistor) |
| ★ ★  | 2SB825  | Q6                       |
| ★    | 1S1555 or<br>1S2076 or<br>1S2473 or<br>DS442 or<br>US1040   | D1—D8                    |
| ★    | VACANT  | D9                       |
| ★    | MA151A-MA   | D10—D12 (Chip Diode)     |
| ★    | WZ-090 or<br>RD9.1EB1 or<br>HZ9B1 or<br><br>GZA8.2U   | D13                      |
| ★    | 1S1886 or<br>SIB01-01 or<br>SIB01-02 or<br>DS135  | D14                      |
|      | CTH-025<br>CCG-022  | L1<br>TC1                |
| ★ ★  | CSG-100   | S1, S2                   |

**RESISTORS**

| Mark | Part No.                  | Symbol & Description                                  |
|------|---------------------------|---|
|      | RS1/8S□□□J                | R1—R15, R19, R23—R26<br>(Chip Resistor)               |
|      | RD1/4PM□□□J<br>VACANT     | R16<br>R17, R18, R21, R22, R29, R30, R33              |
|      | RD1/2PS□□□J<br>RS1/8S□□□K | R20<br>R27, R28, R31, R32,<br>R34—R41 (Chip Resistor) |

**CAPACITORS**

| Mark | Part No.    | Symbol & Description      |
|------|-------------|---------------------------|
|      | CKSYB102K50 | C1, C2 (Chip Capacitor)   |
|      | CCSSL101K50 | C3, C4 (Chip Capacitor)   |
|      | CEA010M35NP | C5, C6                    |
|      | CEA330M16L  | C7                        |
|      | CEA3R3M25L  | C8                        |
|      | CEA100M16L  | C9                        |
|      | VACANT      | C10                       |
|      | CKSYB152K50 | C11, C12 (Chip Capacitor) |
|      | CEAR33M50LL | C13, C14                  |
|      | CKSYF223Z50 | C15 (Chip Capacitor)      |
|      | CEA100M50L  | C16                       |

**LED Unit**

| Mark | Part No. | Symbol & Description |
|------|----------|----------------------|
| ★    | AR3432S  | D1, D2 LED (Red)     |
| ★ ★  | CEL-089  | IL1 Lamp, 40 mA 16V  |

**Fader Unit (UKP-5210)**

| Mark | Part No. | Symbol & Description  |
|------|----------|---|
| ★ ★  | CCS-264  | VR1/S1 Volume/Switch<br>Volume, $40\Omega \times 2$ , $20\text{ k}\Omega(\text{B}) \times 2$ , $50\text{ k}\Omega(\text{W})$ (Fader, Tone, Volume,<br>Balance/Tuner Power)<br>CQFAH154J50 |

**Volume Unit (UKP-5200)**

| Mark | Part No. | Symbol & Description  |
|------|----------|---|
| ★ ★  | CCS-277  | VR1/S1 Volume/Switch<br>Volume, $20\text{ k}\Omega(\text{B}) \times 2$ , $50\text{ k}\Omega(\text{W})$<br>(Tone, Balance, Volume/Tuner<br>Power)<br>CQFAH154J50 |

**Switch P.C. Board**

| Mark | Part No. | Symbol & Description        |
|------|----------|-----------------------------|
| ★ ★  | CSF-014  | S1      Switch (Tuner/Tape) |
| ★ ★  | CSN-071  | S2      Switch (Key OFF)    |

**Miscellaneous Parts List**

| Mark | Part No.              | Symbol & Description   |
|------|-----------------------|--|
| ★ ★  | CSD-019               | S1      Switch<br>(Mono/Stereo) (UKP-5200, 5210)<br>(Mono/Auto) (UKP-5600) |
|      |                       | S2      Switch (Band)  |
|      |                       | S3      Switch (Preset Mute)   |
| ★ ★  | CSN-070               | S4      Switch (FF/REW Mute)   |
| ★ ★  | CXM-081               | M      Motor   |
| ★ ★  | CPB-064 or<br>CPB-065 | HD1     Head   |
| ★    | CXP-032               | SO1     Solenoid   |
| ★    | CXP-033               | SO2     Solenoid   |
| ★    | 1S1886                | D1   |
|      | RD1/4PS□□□J           | R1   |

**NOTICE:****Bass Treble Unit (UKP-5600)**

Replace the VOLUME section of the BASS TREBLE UNIT as shown in the illustration. Solder PC board in order indicated by arrows. Ensure that VOLUME section is securely inserted into PC board as shown. PC board should not be tilted.

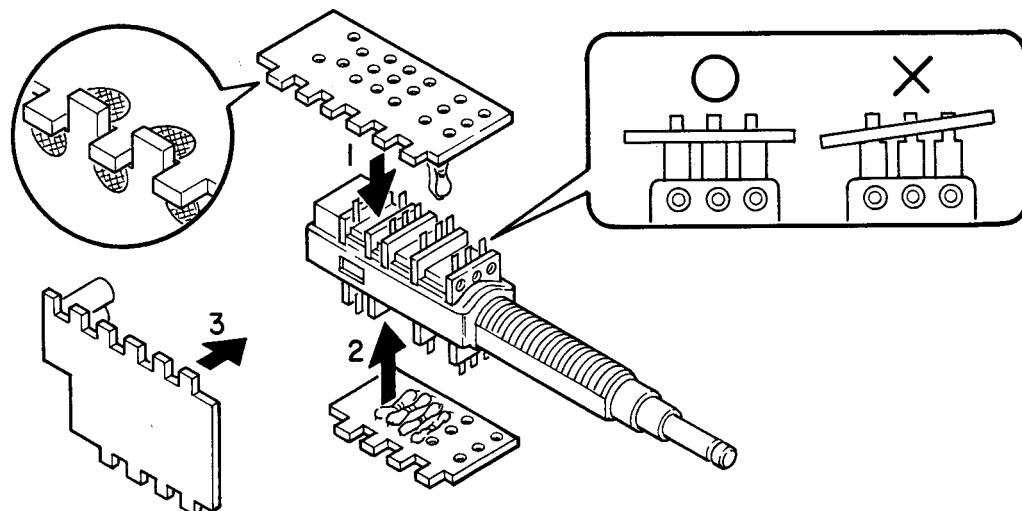


Fig. 21

## 13. PACKING METHOD

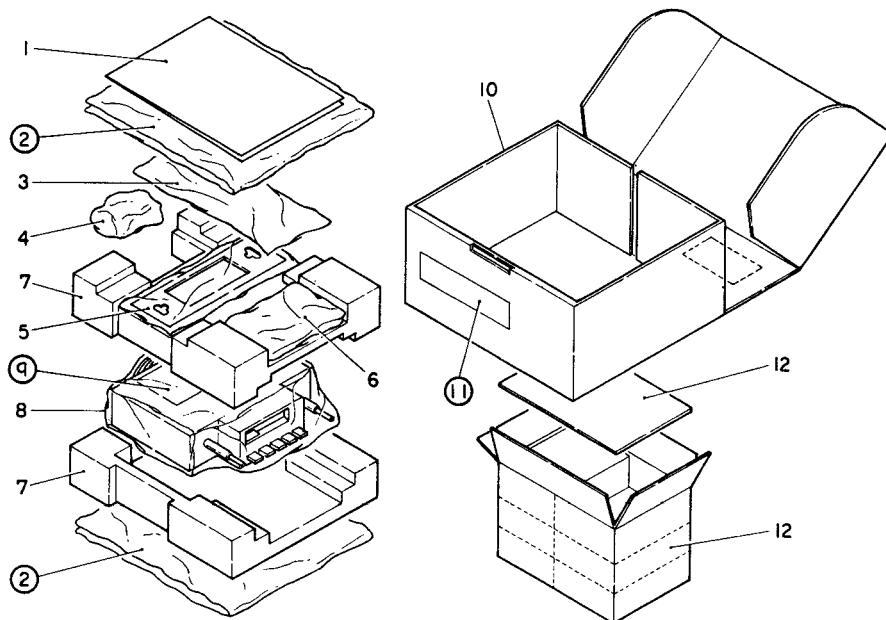


Fig. 22

### • Parts List

| Mark   | No.          | Part No. | Description                       | Mark    | No.     | Part No.                           | Description                   |
|--------|--------------|----------|-----------------------------------|---------|---------|------------------------------------|-------------------------------|
| 1-1.   | CRB-420      |          | Owner's Manual (UKP-5200/US)      |         |         | CEA-356                            | Knob Kit (UKP-5600)           |
|        | CRD-202      |          | Owner's Manual (UKP-5200/CA)      | ★ 4-1.  | CAA-318 |                                    | Knob (Volume/Balance/Tuner    |
|        | CRB-419      |          | Owner's Manual (UKP-5210/US)      | ★       | CAA-418 |                                    | Power, Tun) (UKP-5200, 5600)  |
|        | CRD-201      |          | Owner's Manual (UKP-5210/CA)      | ★ 4-2.  | CAA-353 |                                    | Knob (Volume/Balance/Tuner    |
|        | CRB-418      |          | Owner's Manual (UKP-5600/US)      | ★ 4-3.  | CAA-419 |                                    | Power, Tun) (UKP-5210)        |
|        | CRD-200      |          | Owner's Manual (UKP-5600/CA)      | ★ 4-4.  | CAA-320 |                                    | Knob (Tone, Mono/Stereo)      |
| 1-2.   | CRG-111      |          | FM Guide (UKP-5600/US)            | ★ 4-5.  | CAA-420 |                                    | (UKP-5200)                    |
| 1-3.   |              |          | Card (UKP-5200/US, 5210/US,       | ★       | CAA-319 |                                    | Knob (Mono/Stereo) (UKP-5210) |
|        |              |          | 5600/US)                          | ★ 4-5.  | CAA-421 |                                    | Knob (Mono/Auto) (UKP-5600)   |
| 1-4.   |              |          | Card (UKP-5200/US, 5210/US,       | ★       | CAA-321 |                                    | Knob (Tone) (UKP-5210)        |
|        |              |          | 5600/US)                          | 5.      | CEA-497 |                                    | Knob (Treble) (UKP-5600)      |
| 1-5.   |              |          | Card (UKP-5200/US, 5210/US,       | ★ 4-5.  | CAA-421 |                                    | Knob (Fader) (UKP-5210)       |
| 1-6.   |              |          | 5600/US)                          | ★       | CAA-321 |                                    | Knob (Bass) (UKP-5600)        |
| 2.     |              |          | Card (UKP-5200/CA, 5210/CA,       | 5.      | CEA-497 |                                    | Panel Assy (UKP-5200)         |
|        |              |          | 5600/US)                          | CEA-495 |         |                                    | Panel Assy (UKP-5210)         |
| 3.     | CEA-550      |          | Air Bag                           |         |         | CEA-494                            | Panel Assy (UKP-5600)         |
| 3-1.   | CNC-975      |          | Accessory Kit                     | 6.      | CNS-708 | Cover                              |                               |
| 3-2.   | CDE-437      |          | Strap                             | 7.      | CHC-280 | Styrofoam (1 set pair)             |                               |
| 3-3.   | CNV-769      |          | Cord                              | 8.      | CEG-162 | Polyethylene Bag                   |                               |
| 3-4.   | CNS-722      |          | Washer                            | 9.      |         | Tag (UKP-5200/US, 5210/US,         |                               |
|        |              |          | Cover                             |         |         | 5600/US)                           |                               |
| 3-5.   | CEA-215      |          | Screw Kit                         | 10.     | CHC-285 | Carton (UKP-5200)                  |                               |
| 3-5-1. | CBA-028      |          | Screw for Strap                   | CHC-283 |         | Carton (UKP-5210)                  |                               |
| 3-5-2. | B70-055      |          | Washer faced Nut, 4 $\phi$ x 4.5t | CHC-281 |         | Carton (UKP-5600)                  |                               |
| 3-5-3. | WS40FMC      |          | Washer                            | 11.     |         | Seal (These seals are applied only |                               |
| 3-5-4. | PMB50P200FMC |          | Screw                             |         |         | to the model UKP-5200/CA,          |                               |
| 3-5-5. | B70-056-A    |          | Washer faced Nut, 4 $\phi$ x 4.5t |         |         | 5210/CA, 5600/CA.)                 |                               |
| 3-5-6. | CND-646      |          | Washer, 10 $\phi$ x 2t            | 12.     | CHC-286 | Contain Box (UKP-5200/US)          |                               |
| 3-5-7. | CBN-028      |          | Nut                               | CHC-284 |         | Contain Box (UKP-5210/US)          |                               |
| 4.     | CEA-498      |          | Knob Kit (UKP-5200)               | CHC-282 |         | Contain Box (UKP-5600/US)          |                               |
|        | CEA-355      |          | Knob Kit (UKP-5210)               |         |         |                                    |                               |